US012103576B2

(12) **United States Patent**
Elden

(10) **Patent No.: US 12,103,576 B2**
(45) **Date of Patent: Oct. 1, 2024**

(54) **STACKABLE COLLAPSIBLE CARTS**

(71) Applicant: **dbest products, Inc.**, Carson, CA (US)

(72) Inventor: **Richard Elden**, Carson, CA (US)

(73) Assignee: **dbest products, Inc.**, Carson, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **18/542,495**

(22) Filed: **Dec. 15, 2023**

(65) **Prior Publication Data**

US 2024/0116555 A1 Apr. 11, 2024

Related U.S. Application Data

(63) Continuation of application No. 18/161,677, filed on Jan. 30, 2023, which is a continuation-in-part of (Continued)

(51) **Int. Cl.**
B62B 3/02 (2006.01)

(52) **U.S. Cl.**
CPC ***B62B 3/025*** (2013.01)

(58) **Field of Classification Search**
CPC B62B 3/025; B62B 3/027; B62B 3/022; B62B 3/02; B62B 5/02; B62B 5/026; B62B 5/028
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,554,034 A 9/1925 Richie
2,132,069 A 10/1938 Hall
(Continued)

FOREIGN PATENT DOCUMENTS

CN 206813544 U 12/2017
CN 107668883 A 2/2018
(Continued)

OTHER PUBLICATIONS

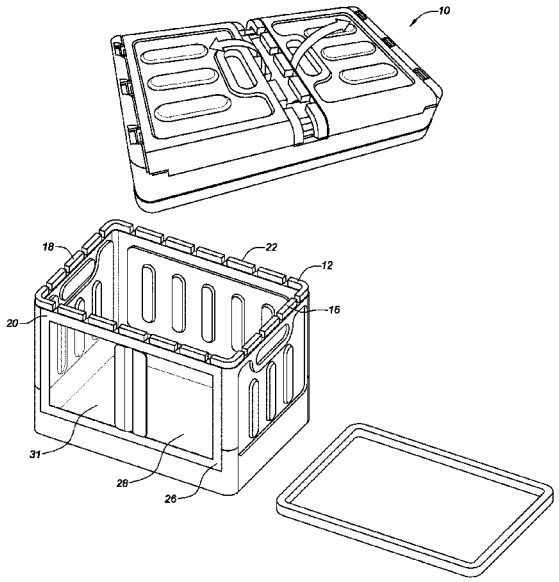
AMAZON.Com, "Foldable Utility Cart Portable Rolling Crate Handcart Shopping Trolley Collapsible 4 Rotate Wheels with Durable Heavy Duty Plastic Telescoping Handle for Travel Shopping Moving Storage Office Use", Available online at: "https://www.amazon.com/Portable-Handcart-Telescoping-Collapsible-Shopping/dp/B08HT17X39?th=1", Retrieved on Sep. 6, 2023, 8 pages.
(Continued)

Primary Examiner — John D Walters
(74) *Attorney, Agent, or Firm* — ORBIT IP, LLP

(57) **ABSTRACT**

Embodiments of the present disclosure may include a collapsible cart configured to transition from a closed condition where it may be folded up to an open condition where it may be expanded for use, the collapsible cart including a rigid frame forming a compartment, the rigid frame having a front wall, a rear wall, a right sidewall, a left sidewall, and a bottom wall, the right sidewall and the left sidewall may be configured to fold inwardly in the closed condition. In some embodiments, the right sidewall including a first right panel rotatably coupled to a second right panel. In some embodiments, a retractable handle mechanism is disposed at, within or adjacent the back wall. The retractable handle mechanism includes a hand grip attached to a telescoping assembly. The telescoping assembly is pivotably coupled at a proximal end to the bottom of the rear wall.

18 Claims, 53 Drawing Sheets



Related U.S. Application Data

application No. 17/712,032, filed on Apr. 1, 2022, now Pat. No. 11,565,735, which is a continuation of application No. 17/143,116, filed on Jan. 6, 2021, now Pat. No. 11,338,835.

(60) Provisional application No. 62/974,956, filed on Jan. 6, 2020, provisional application No. 62/995,375, filed on Jan. 27, 2020, provisional application No. 63/576,750, filed on Mar. 6, 2023, provisional application No. 63/577,068, filed on Mar. 28, 2023.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,362,721	A		11/1944	Reynolds
2,514,849	A		7/1950	Dewing
2,564,939	A		8/1951	Weast
2,715,533	A		8/1955	Strausburg
2,742,973	A		4/1956	Johannesen
2,757,935	A		8/1956	Sofia
2,786,692	A		3/1957	Timpson
2,957,700	A		10/1960	Beaurline
3,041,026	A		6/1962	Wilson
3,092,395	A		6/1963	Mitty et al.
3,135,527	A		6/1964	Knapp
3,276,786	A		10/1966	Olander
3,804,432	A		4/1974	Lehrman
4,202,521	A		5/1980	Harding
4,205,413	A	*	6/1980	Collignon ..... A61G 1/0243 16/35 D
4,509,461	A		4/1985	Peck
D292,135	S		9/1987	Grube et al.
4,765,644	A		8/1988	Bell
4,765,646	A		8/1988	Cheng
4,852,520	A		8/1989	Goetz
4,887,837	A		12/1989	Bonewicz, Jr. et al.
4,977,857	A		12/1990	Slawinski
5,197,754	A		3/1993	Ward
5,244,219	A		9/1993	Hadlum
5,294,158	A		3/1994	Cheng
D352,145	S		11/1994	Perez
5,603,573	A		2/1997	Mercier et al.
5,653,194	A		8/1997	Guy
5,660,476	A		8/1997	DeCoster
5,678,842	A		10/1997	Hook et al.
5,765,665	A		6/1998	Cheng et al.
5,884,982	A		3/1999	Yemini
5,988,671	A		11/1999	Abelbeck et al.
6,021,740	A		2/2000	Martz
6,076,485	A		6/2000	Peeples et al.
6,126,183	A		10/2000	Lensing
6,431,580	B1		8/2002	Kady
6,561,524	B1		5/2003	Medina
6,598,898	B2		7/2003	Chu
D477,916	S		8/2003	Nykoluk
6,601,859	B2		8/2003	Durham
6,626,634	B2		9/2003	Hwang et al.
6,651,791	B1		11/2003	Nykoluk et al.
6,688,516	B1		2/2004	Ussen
6,918,474	B2		7/2005	Nykoluk
7,066,476	B2		6/2006	Elden
D525,758	S		7/2006	Lynch
7,140,635	B2		11/2006	Johnson et al.
7,147,243	B2		12/2006	Kady
D545,025	S		6/2007	Elden
7,316,407	B1		1/2008	Elden
D565,269	S		3/2008	Tomasiak et al.
7,458,451	B2		12/2008	Godshaw et al.
7,617,797	B2		11/2009	Lam
7,731,221	B2		6/2010	Bess
7,789,044	B2		9/2010	McGrade
7,914,015	B2		3/2011	Tompkins
D642,764	S		8/2011	Elden
8,317,219	B2		11/2012	Bruce
8,366,124	B1		2/2013	Caldwell
8,439,374	B1		5/2013	Elden
D690,893	S		10/2013	O'Brien
8,579,305	B2		11/2013	Hou
8,641,059	B2	*	2/2014	Khodor B62B 1/12 280/47.28
8,915,504	B1		12/2014	Seibert
D723,237	S		2/2015	Maddux et al.
9,233,700	B1		1/2016	Elden
9,382,035	B2	*	7/2016	Fritz B65D 21/0213
9,392,766	B1		7/2016	Elden
10,588,388	B2		3/2020	Kabalin
10,676,235	B1	*	6/2020	Song B65D 11/1873
D904,716	S		12/2020	Shen
D930,314	S		9/2021	Huang
D932,186	S		10/2021	Brunner et al.
D942,107	S		1/2022	Ren
2002/0050429	A1		5/2002	Nykoluk et al.
2002/0089134	A1		7/2002	Salzberger et al.
2002/0139628	A1		10/2002	Chang
2002/0144874	A1		10/2002	Nykoluk et al.
2003/0011173	A1	*	1/2003	Shall A01K 97/22 280/639
2004/0075248	A1		4/2004	Elden
2004/0211635	A1		10/2004	Lu
2005/0275195	A1		12/2005	Matula et al.
2006/0278173	A1		12/2006	Kamijo
2007/0215425	A1		9/2007	Slater
2009/0145913	A1	*	6/2009	Panosian B62B 1/12 220/666
2009/0205578	A1		8/2009	Alves
2009/0212536	A1		8/2009	Tadeo
2010/0026080	A1	*	2/2010	Colchiesqui B62B 5/026 301/5.23
2010/0175633	A1		7/2010	Krauss et al.
2011/0056441	A1		3/2011	Chang
2011/0197823	A1		8/2011	Pietra
2012/0055122	A1		3/2012	Beauchamp
2012/0274052	A1		11/2012	Zhu
2013/0320641	A1		12/2013	Zhang
2015/0360710	A1		12/2015	Thompson
2017/0001654	A1	*	1/2017	Obrien B62B 1/14
2017/0120679	A1		5/2017	Naiva
2017/0297601	A1		10/2017	Carbonaro
2018/0014502	A1		1/2018	O'Shaughnessy et al.
2019/0216193	A1		7/2019	Kabalin
2019/0322302	A1	*	10/2019	Greenup B62B 1/002
2020/0269898	A1		8/2020	Frankel et al.

FOREIGN PATENT DOCUMENTS

CN	207120985	U	3/2018
CN	207191693	U	4/2018
CN	207506081	U	6/2018
CN	108328065	A	7/2018
CN	208070260	U	11/2018
CN	304926177	S	12/2018
CN	305015819	S	1/2019
CN	209177176	U	7/2019
CN	210747711	U	6/2020
CN	214777508	U	11/2021
DE	202020102798	U1	5/2020
EP	3318465	A1	5/2018
GB	2243198	A	10/1991
GB	2349186	A	10/2000

OTHER PUBLICATIONS

AMAZON.Com, Foldable Utility Cart Folding Portable Rolling Crate Handcart with Durable Heavy Duty Plastic Telescoping Handle Collapsible 4 Rotate Wheels for Travel Shopping Moving Luggage Office Use (Red), Available online at: "https://www.amazon.com/Foldable-Portable-Handcart-Telescoping-Collapsible/dp/B07YFG4BW6/ref=sr_1_1?dchild=1&keywords=B07YFG4BW6&qid=1627442148&sr=8-1&th=1" Retrieved on Sep. 6, 2023, 9 pages.

(56) **References Cited**

OTHER PUBLICATIONS

AMAZON.Com, "Olympia Tools 85-015 Grand Folding Storage Rolling Cart with Telescopic Handle for Easy Transportation, Weight Capacity up to 150 Pounds", Available online at : "https://www.amazon.ca/Pack-N-Roll-85-015-917-85-015-Portable-Capacity/dp/B076D9XG7T?th=1", Retrieved on Sep. 6, 2023, 7 pages.

AMAZON.Com, "Olympia Tool 85-010 Grand Pack-N-Roll Portable Tool Carrier, Black" Available online at: "https://web.archive.org/web/20150727103951/http://www.amazon.com:80/Olympia-85-010-Pack-N-Roll-Portable-Carrier/dp/B000UZ0P7I", Retrieved on Sep. 6, 2023, 5 pages.

Bed Bath and Beyond. com, "Folding Crate Cart in Grey", 2022, 9 pages.

EBAY.com, "Dbest Products Quik Cart Elite Stair Climber wheeled rolling crate", May 31, 2022, 4 pages, https://www.ebay.com/itm/394062298897.

Global Industrial, "Olympia Tools Grand Pack-N-Roll® Rolling Folding Crate Cart 85-010—80 Lb. Capacity", Available online at: "https://www.globalindustrial.com/p/pack-n-roll-grand-rolling-folding-crate-cart-85-010", Retrieved on Sep. 6, 2023, 3 pages.

* cited by examiner

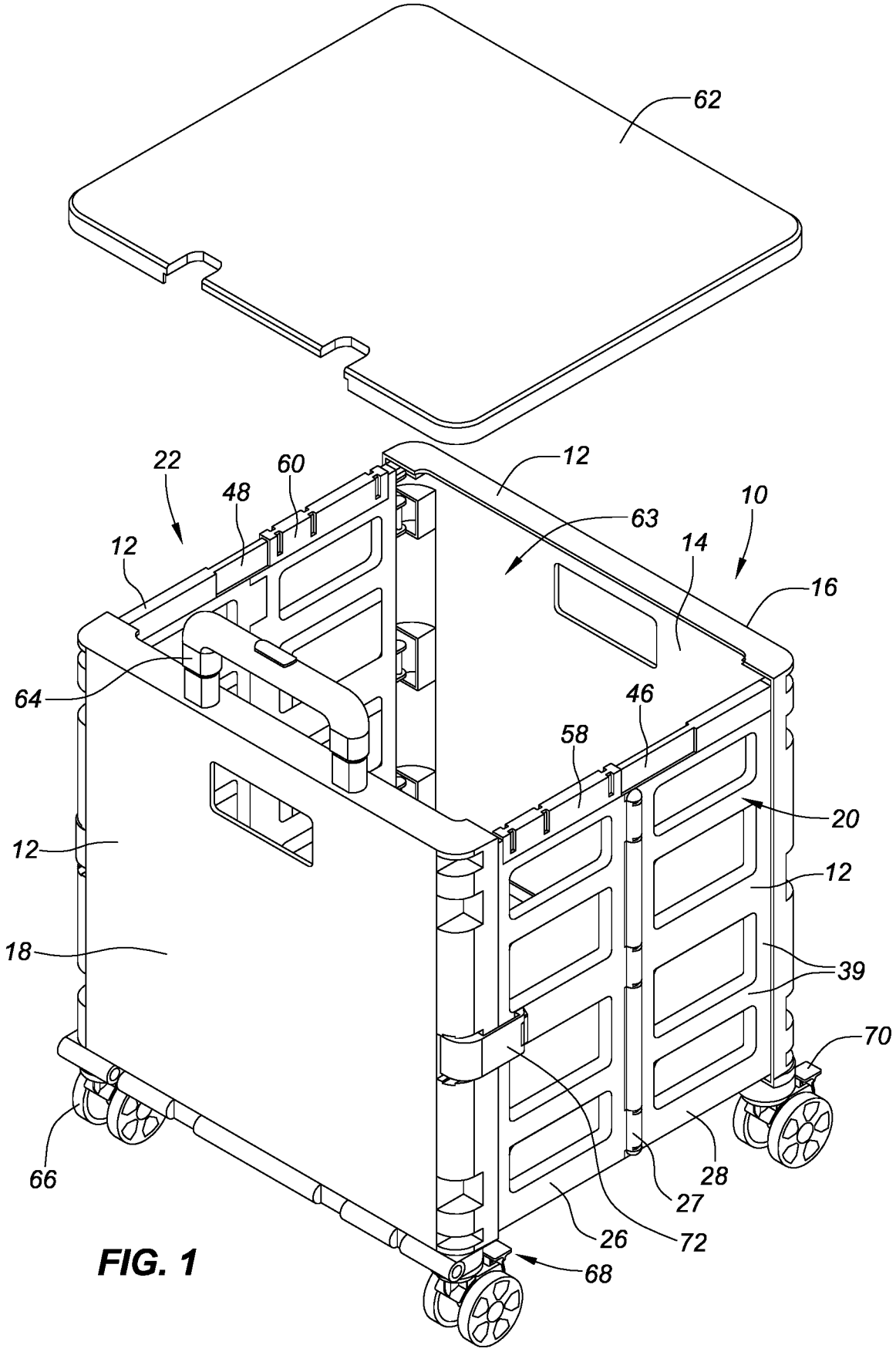

62
22
60
48
12
12
63
10
14
16
64
46
58
20
12
12
18
39
70
66
28
27
26
72
68

FIG. 1

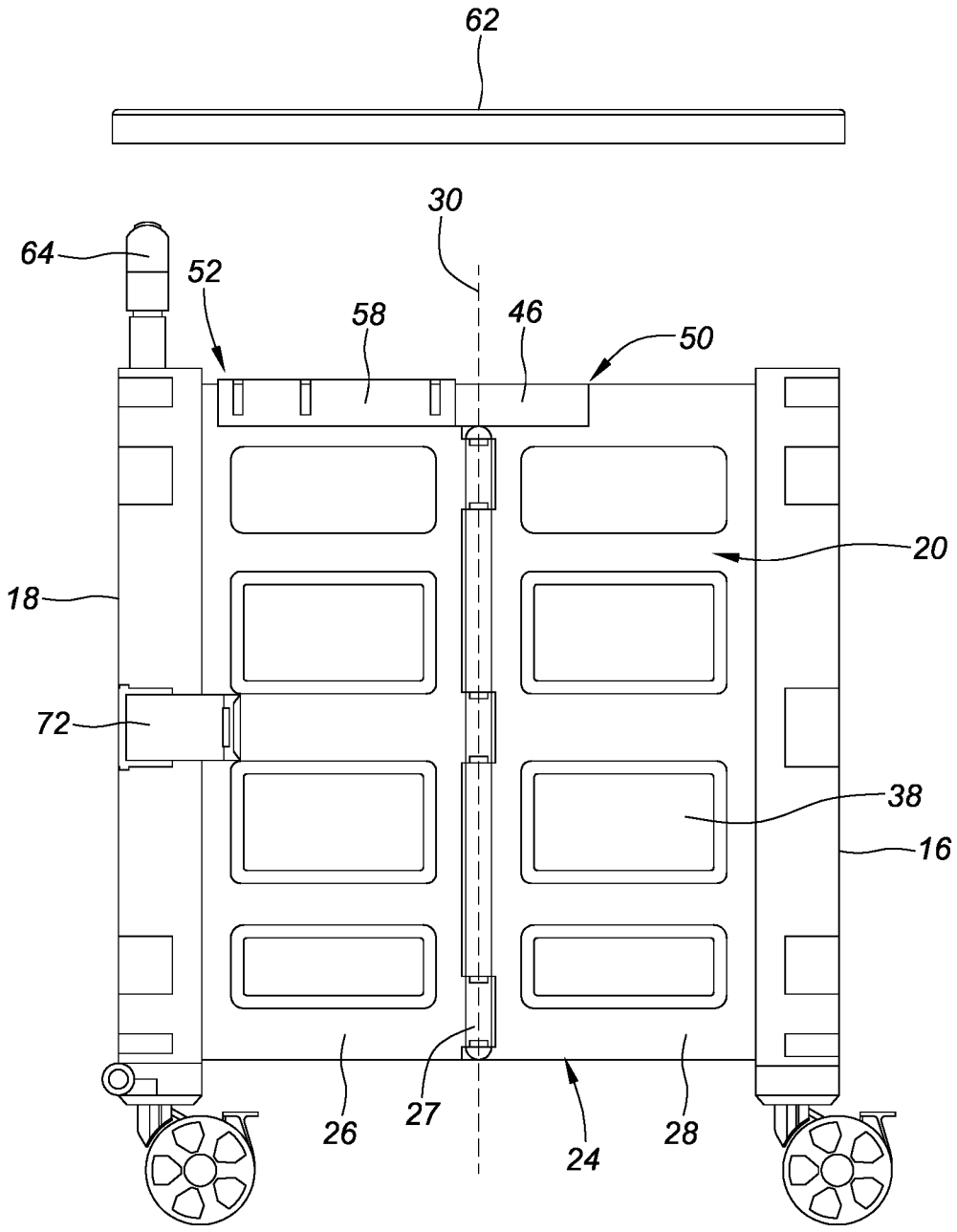


FIG. 2

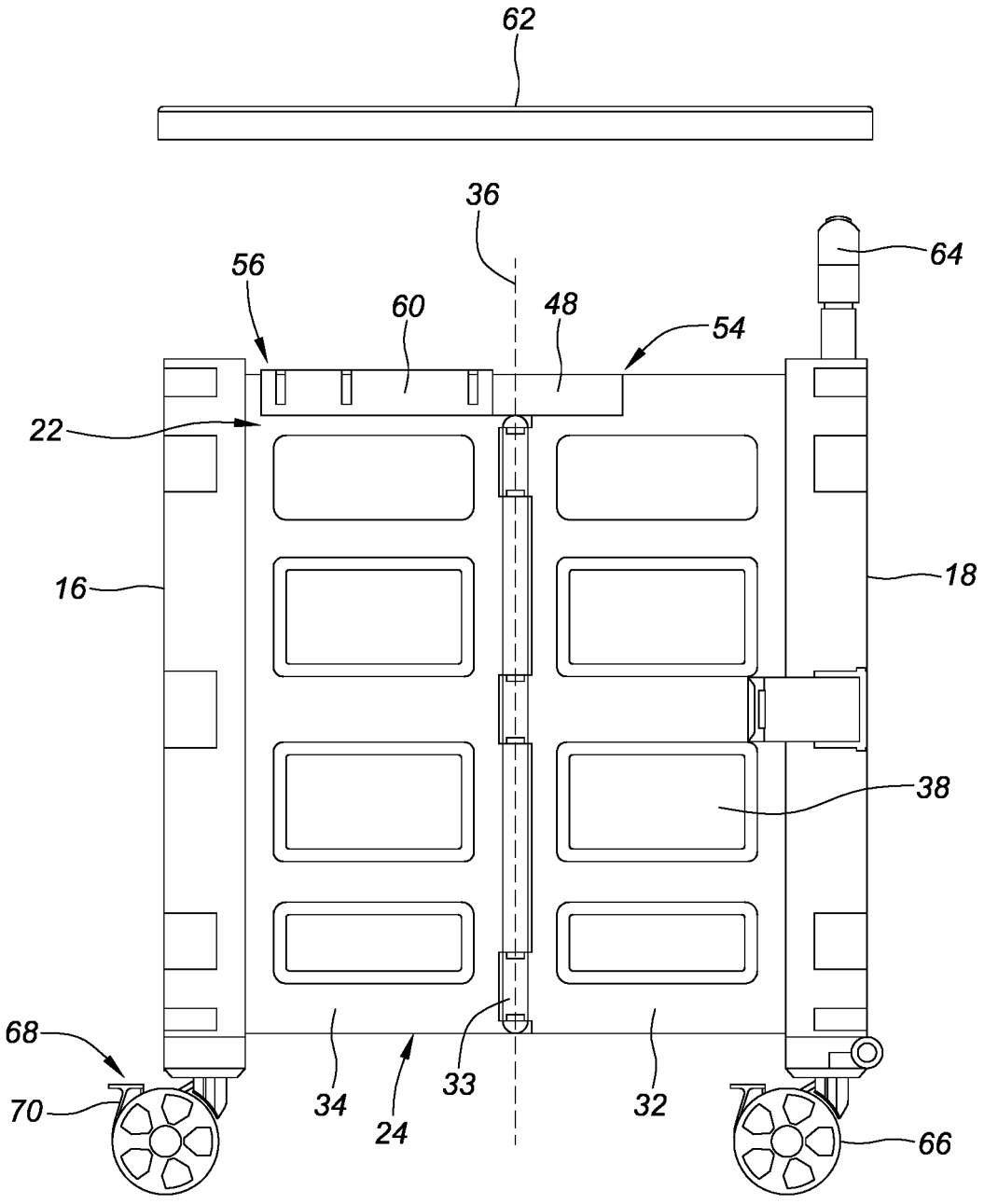


FIG. 3

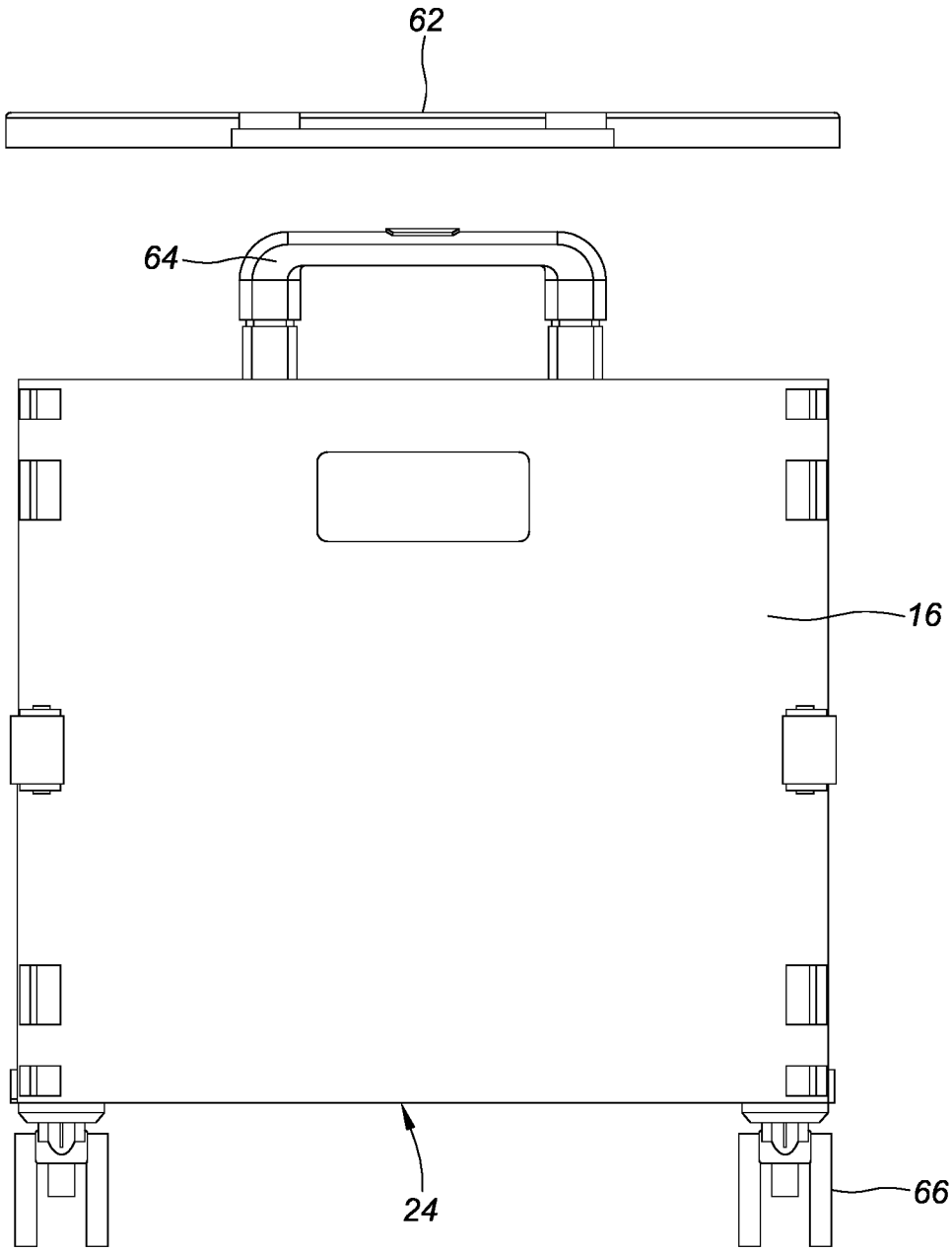


FIG. 4

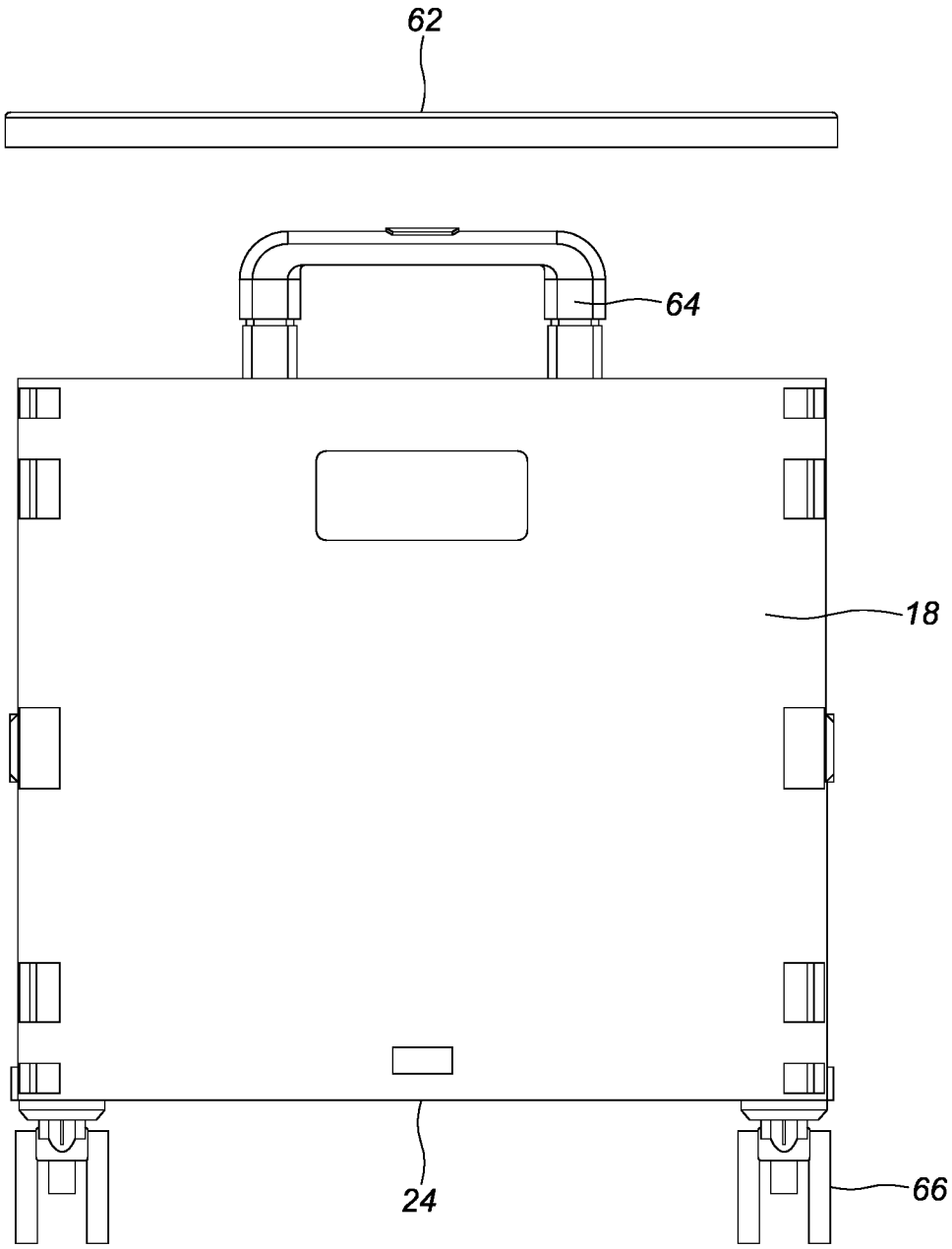


FIG. 5

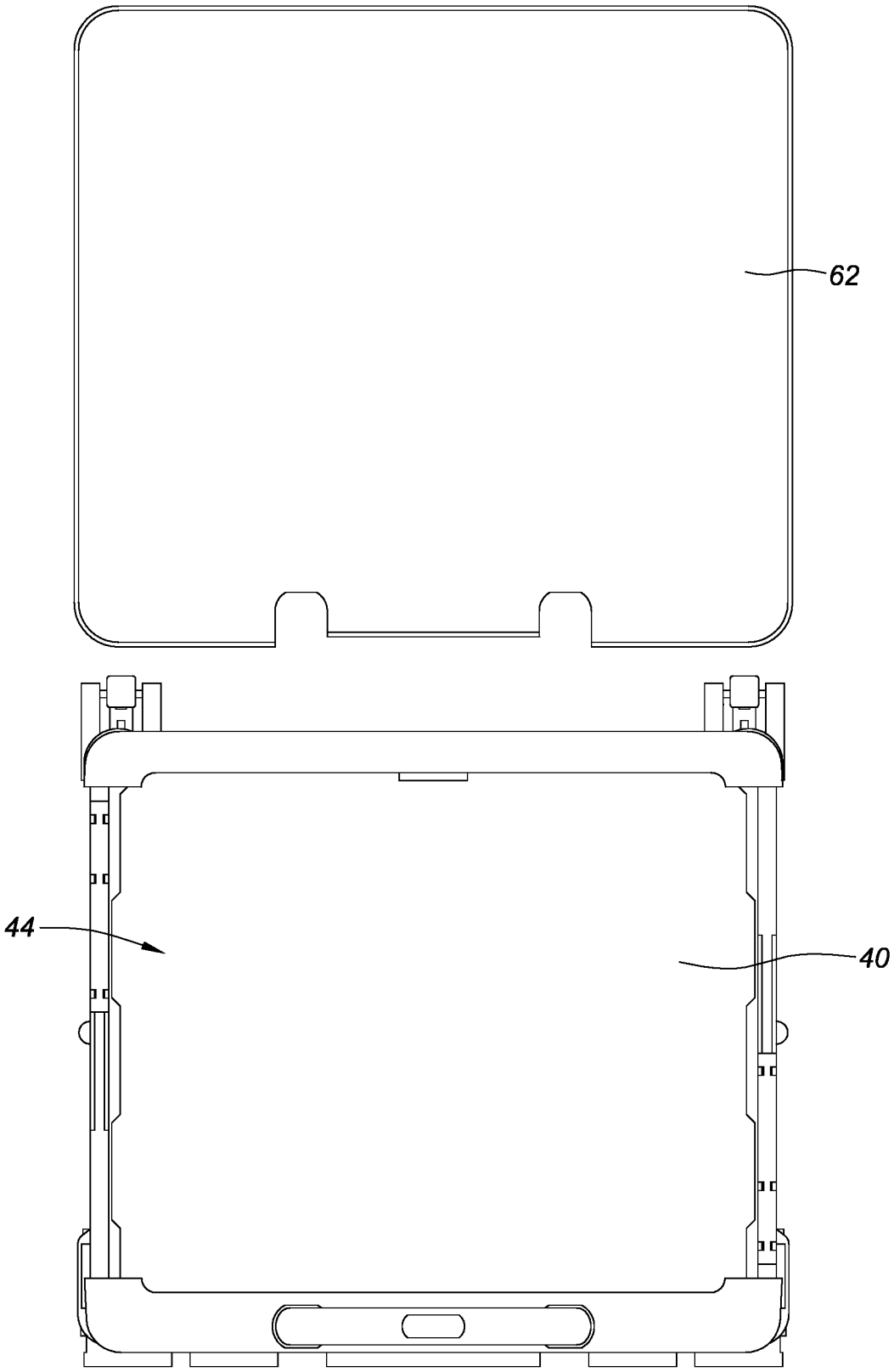


FIG. 6

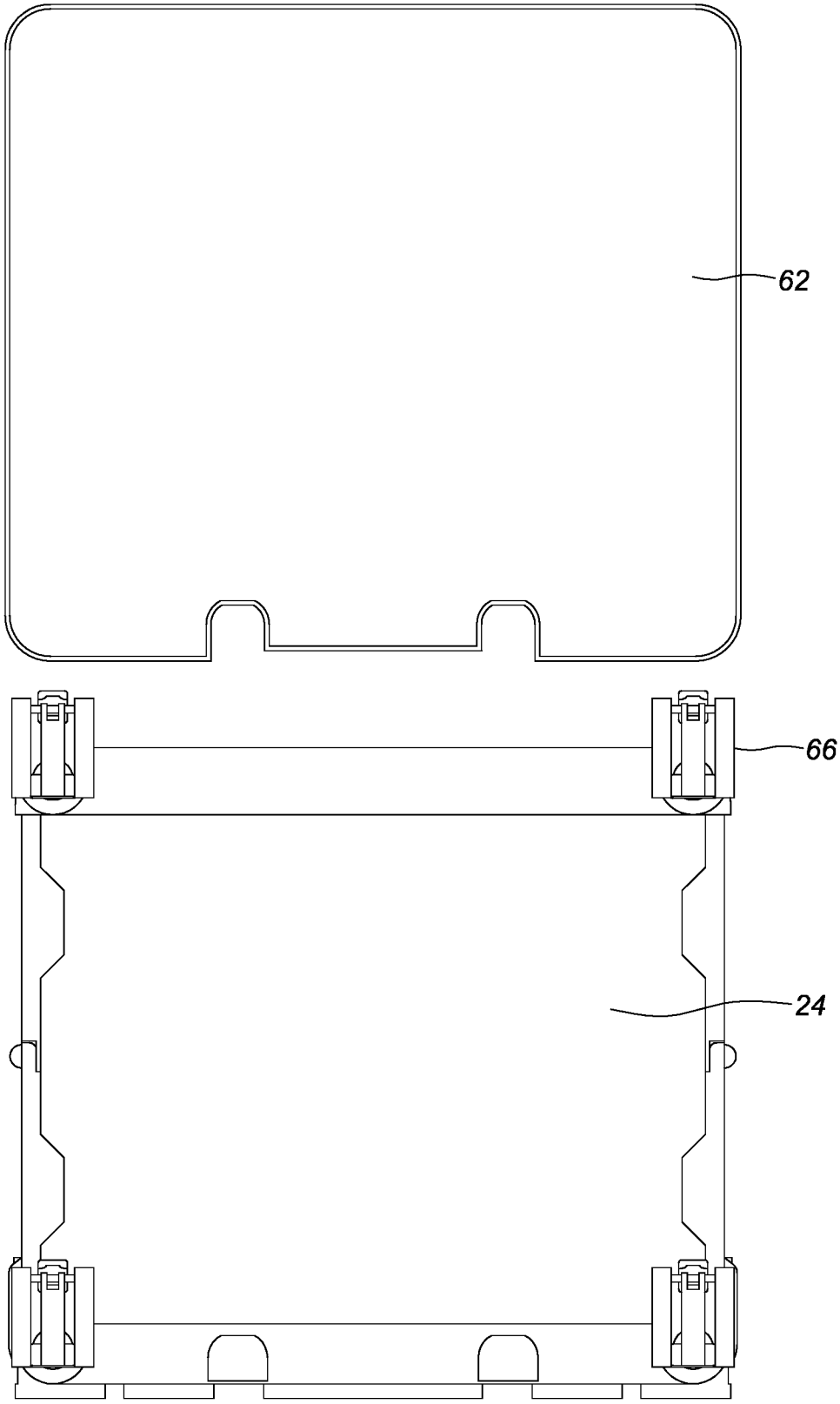


FIG. 7

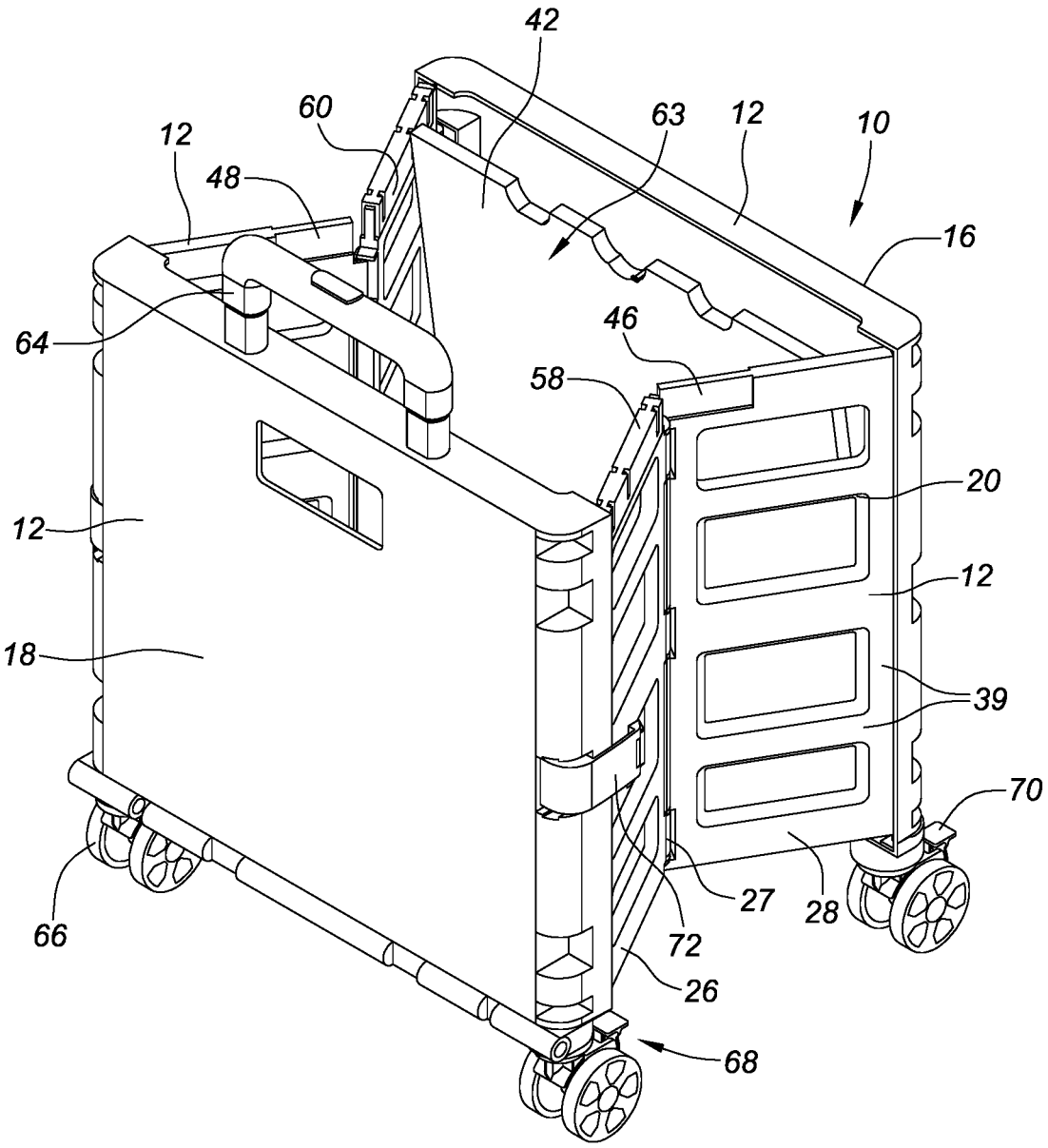


FIG. 8

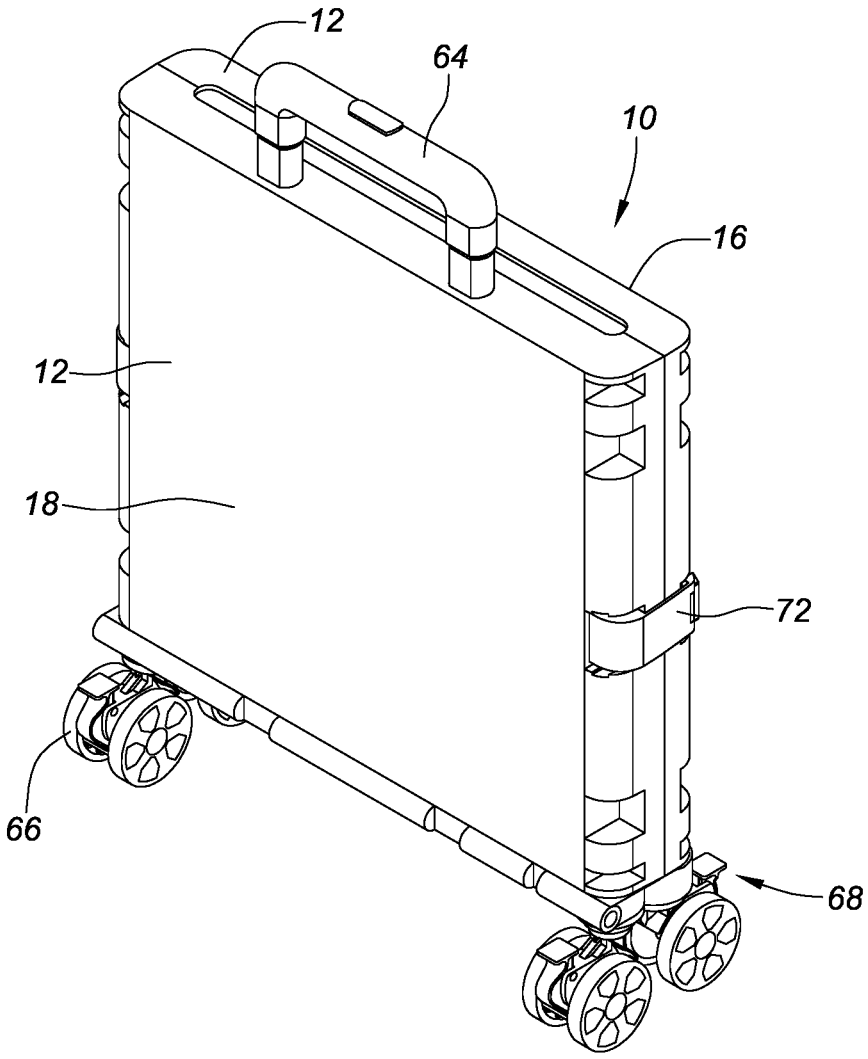


FIG. 9

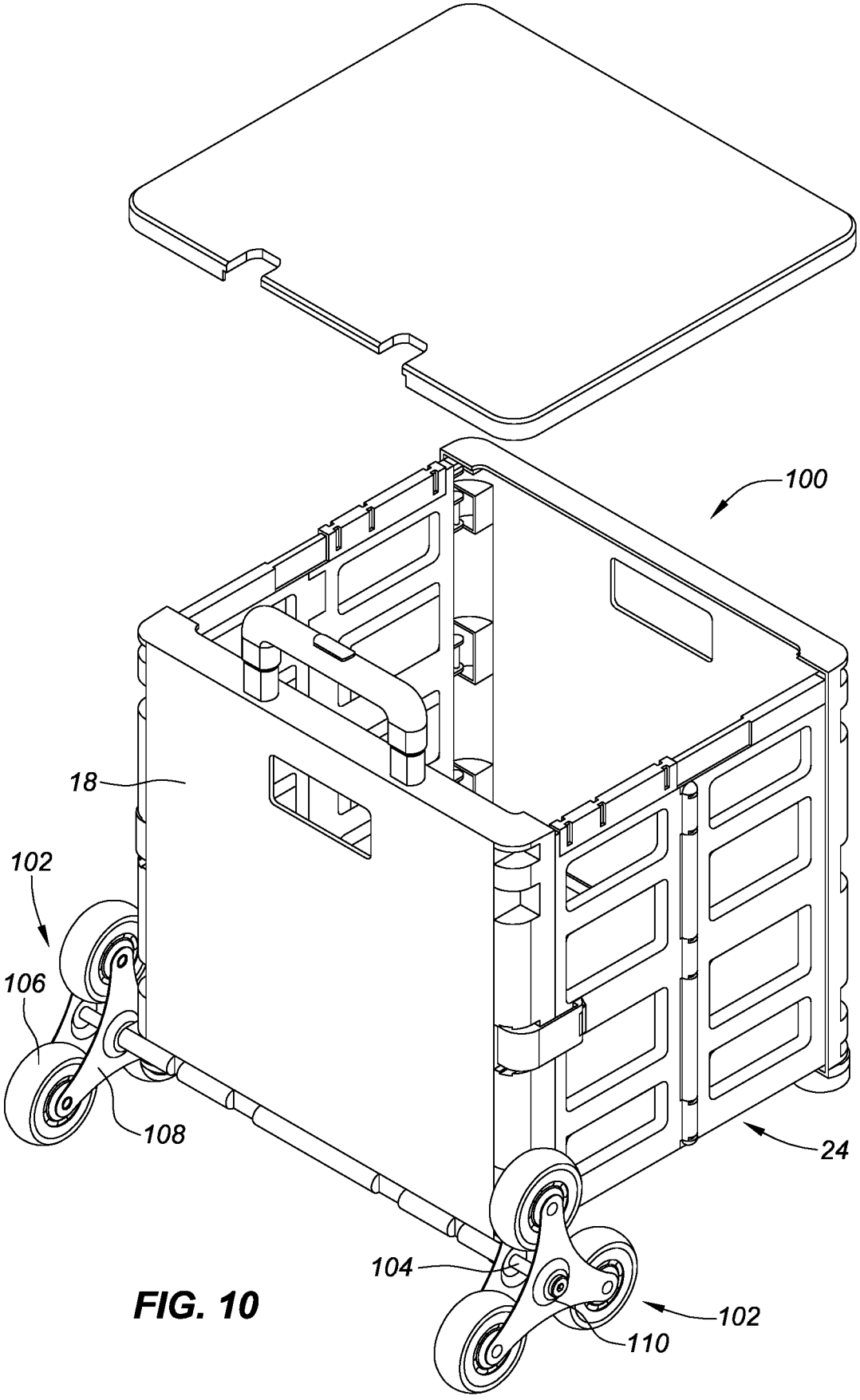


FIG. 10

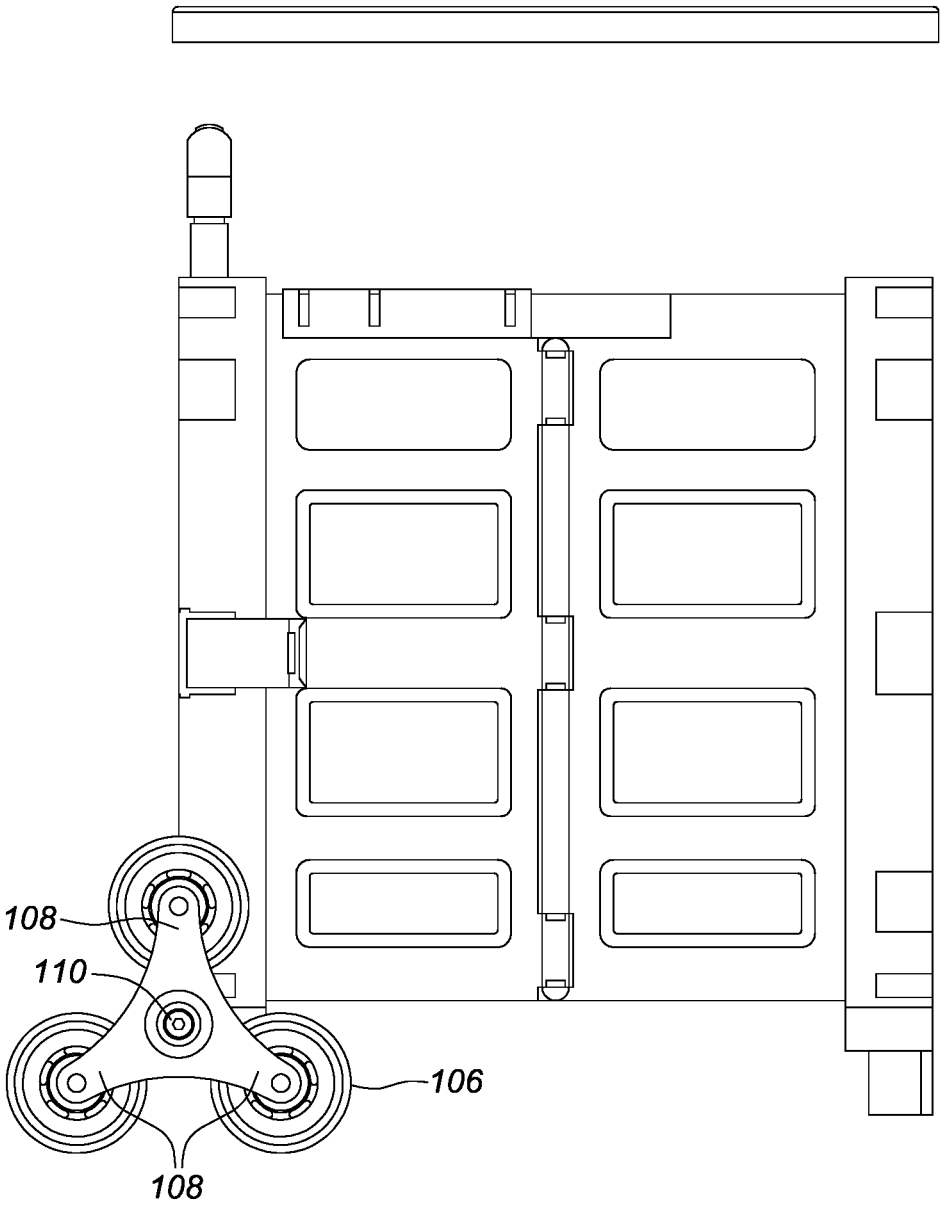


FIG. 11

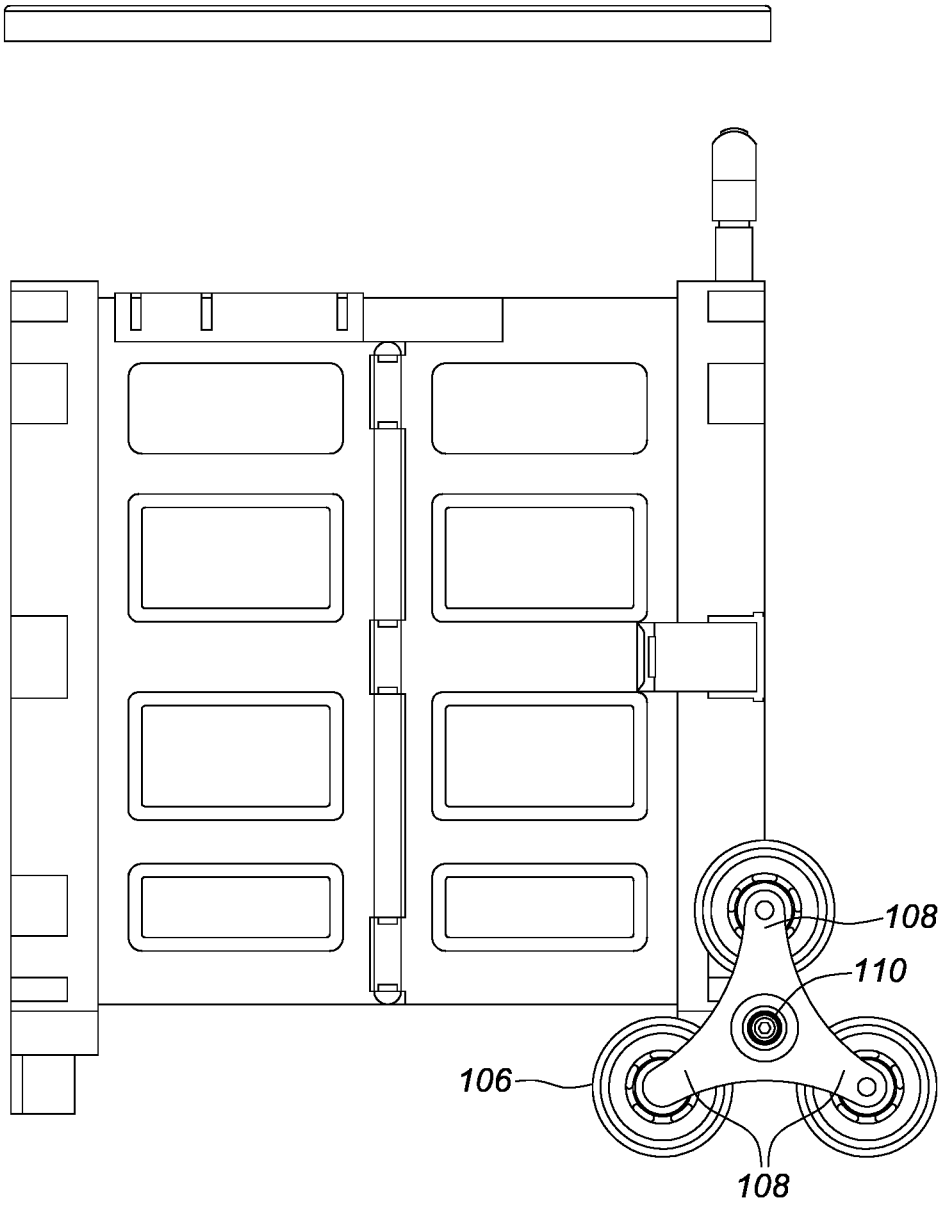


FIG. 12

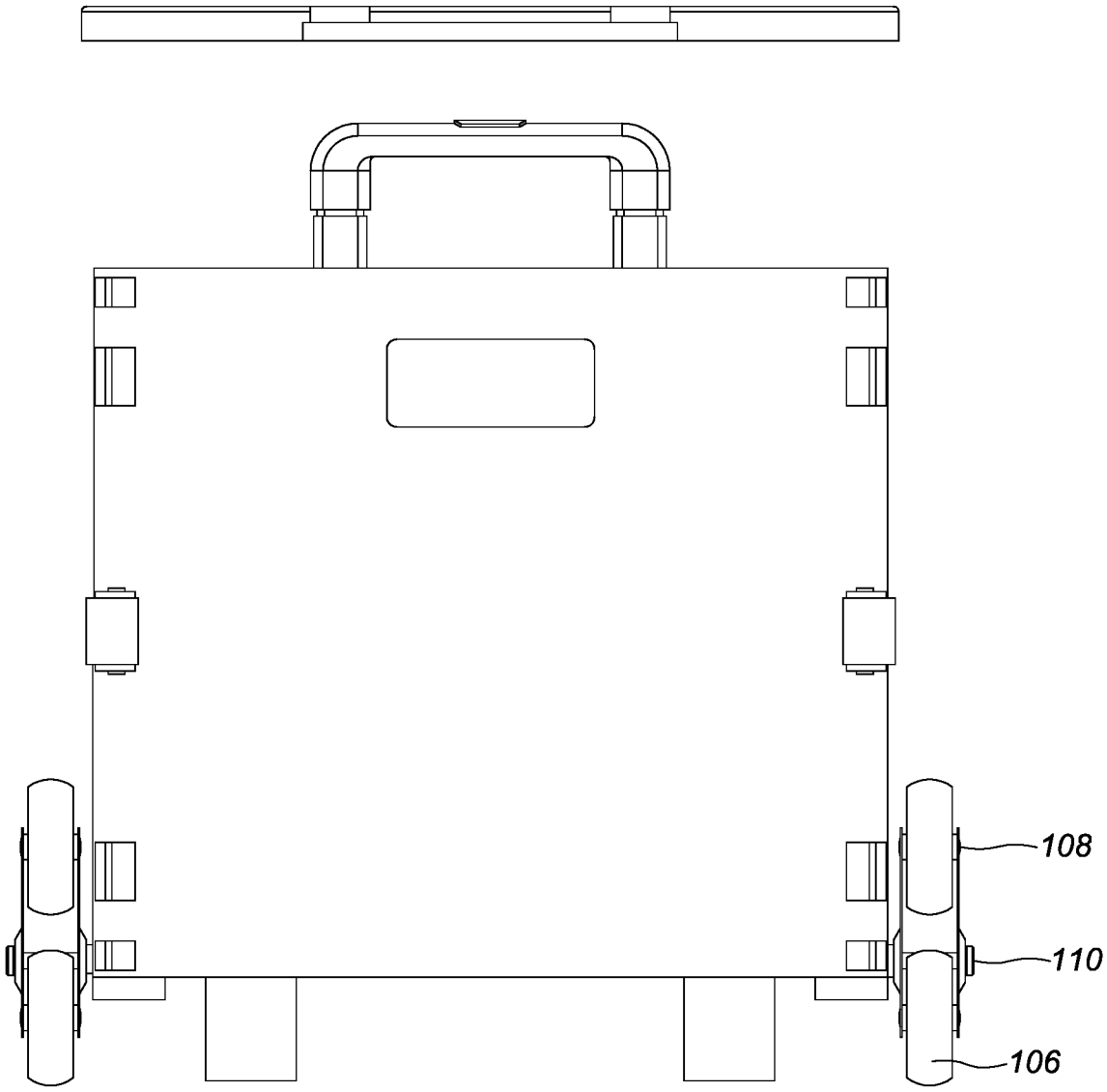


FIG. 13

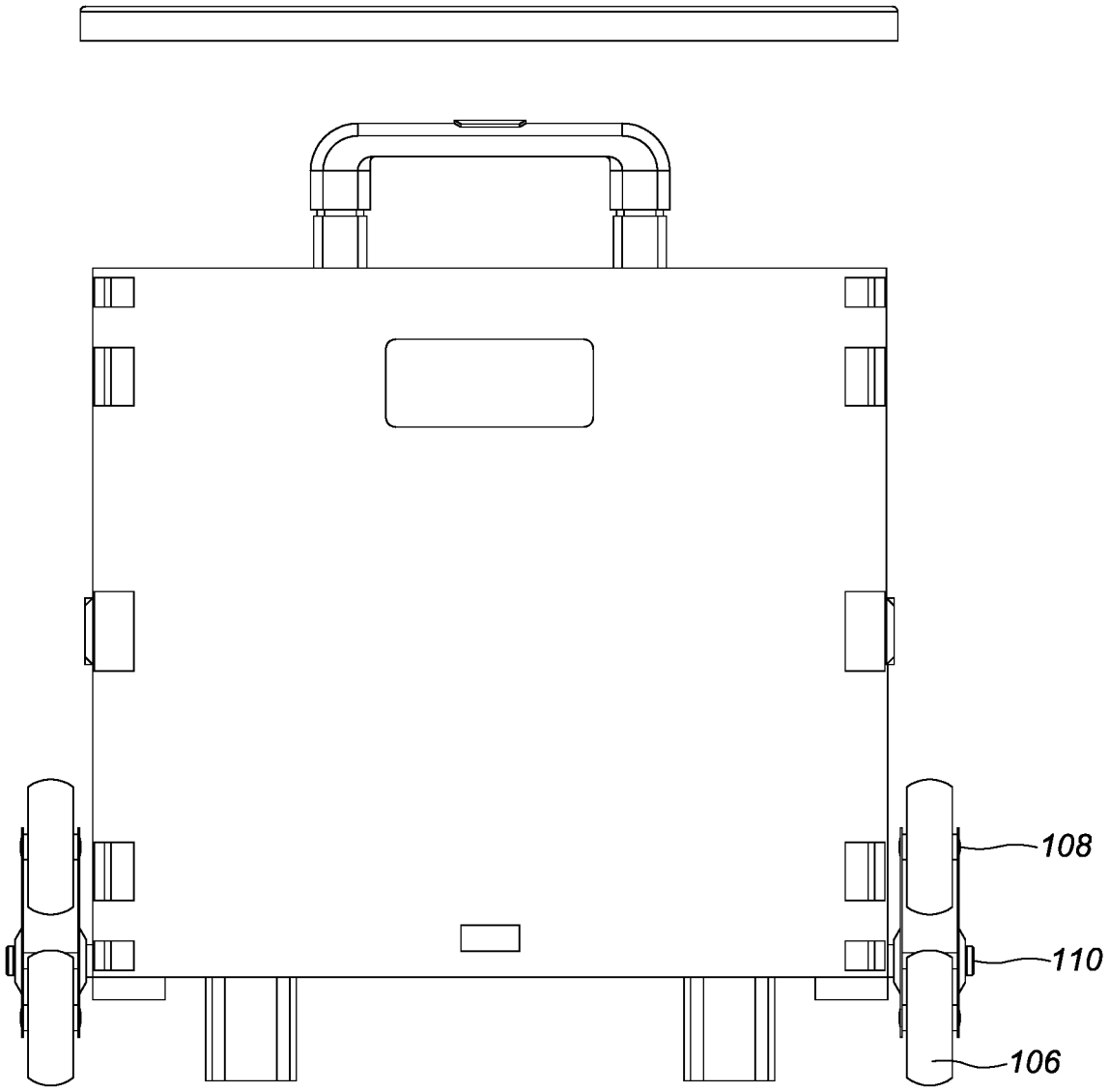


FIG. 14

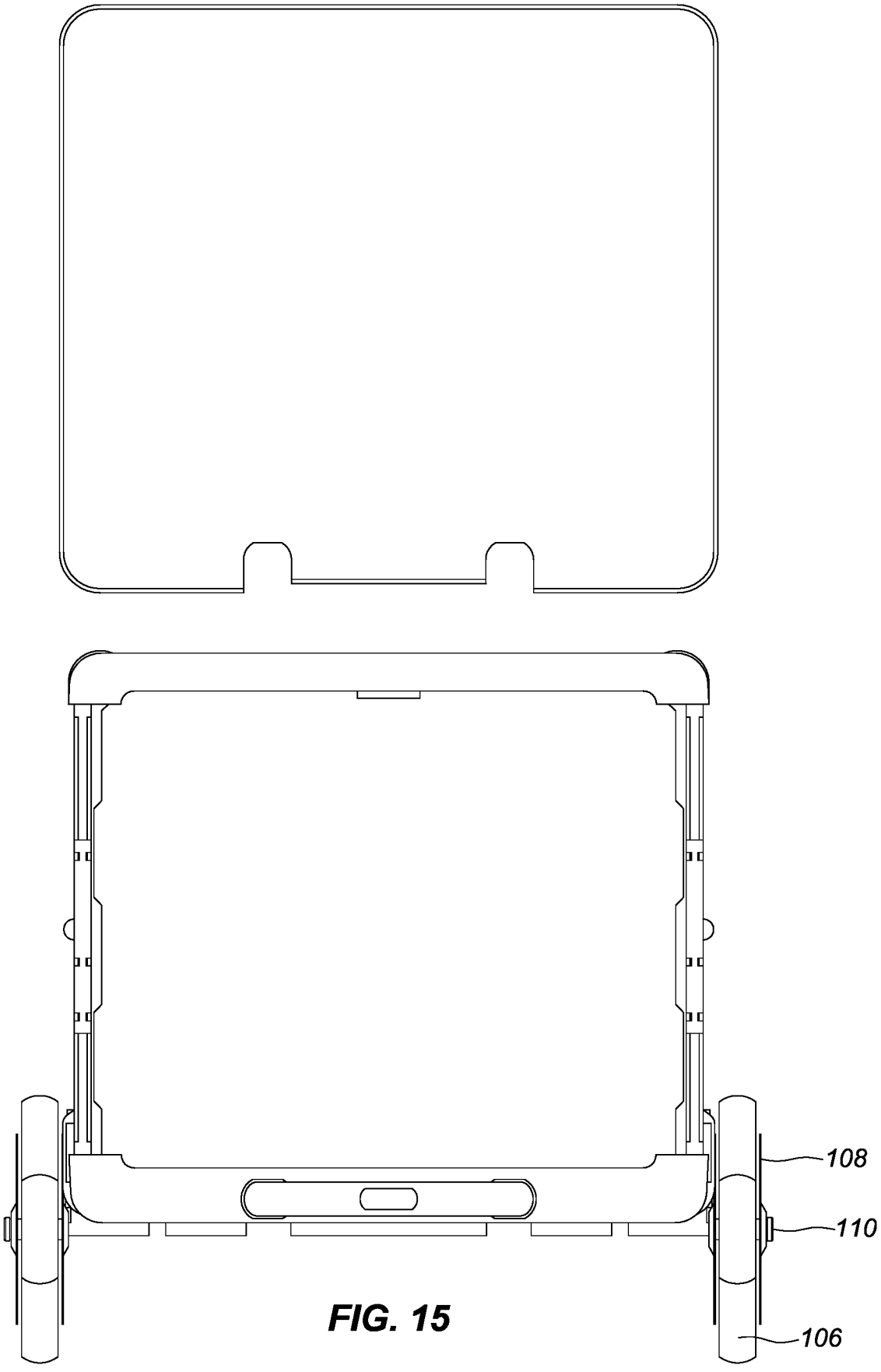


FIG. 15

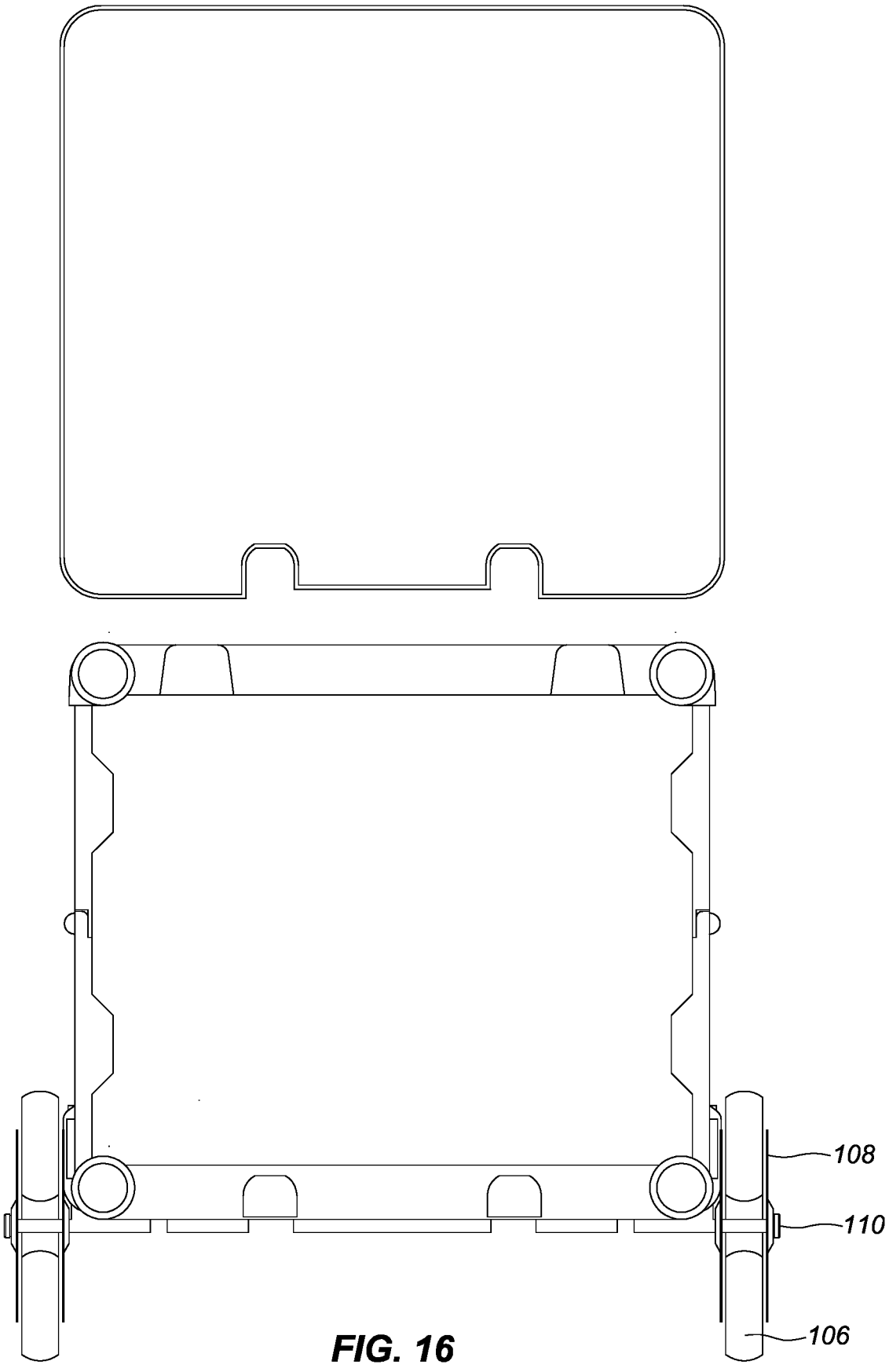


FIG. 16

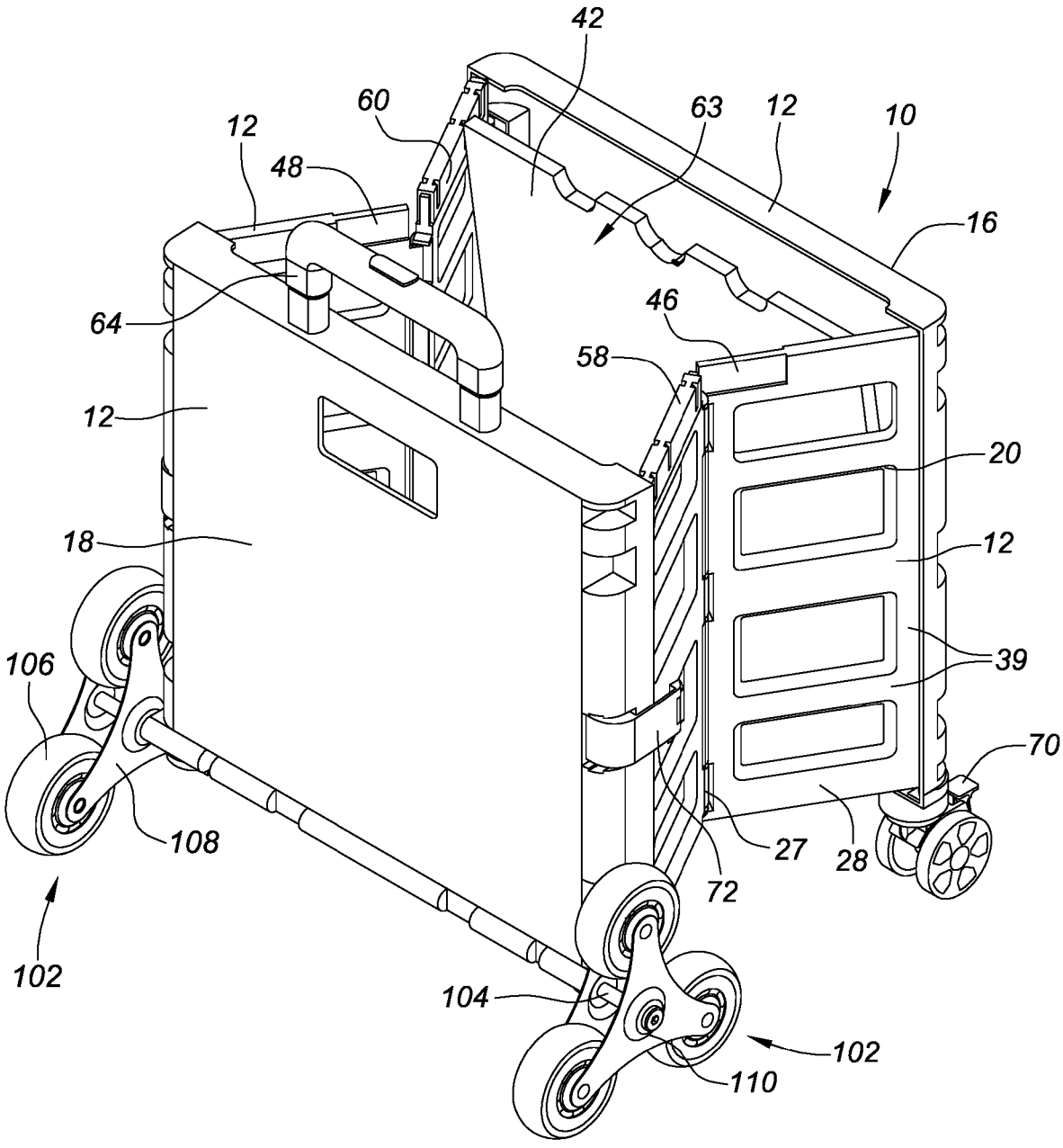

42
60
63
12
10
12
48
16
64
46
58
12
20
18
12
39
106
70
108
27
28
72
102
104
102
110

FIG. 17

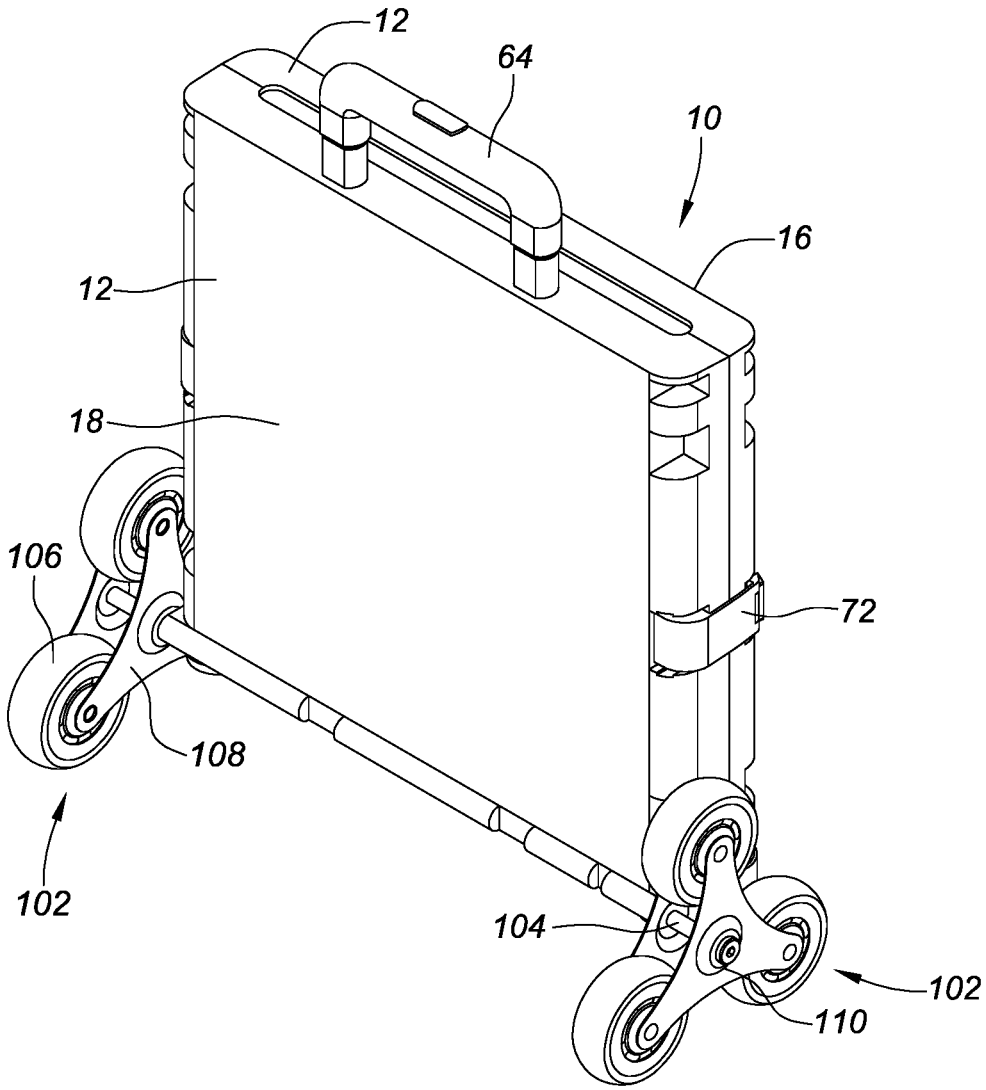


FIG. 18

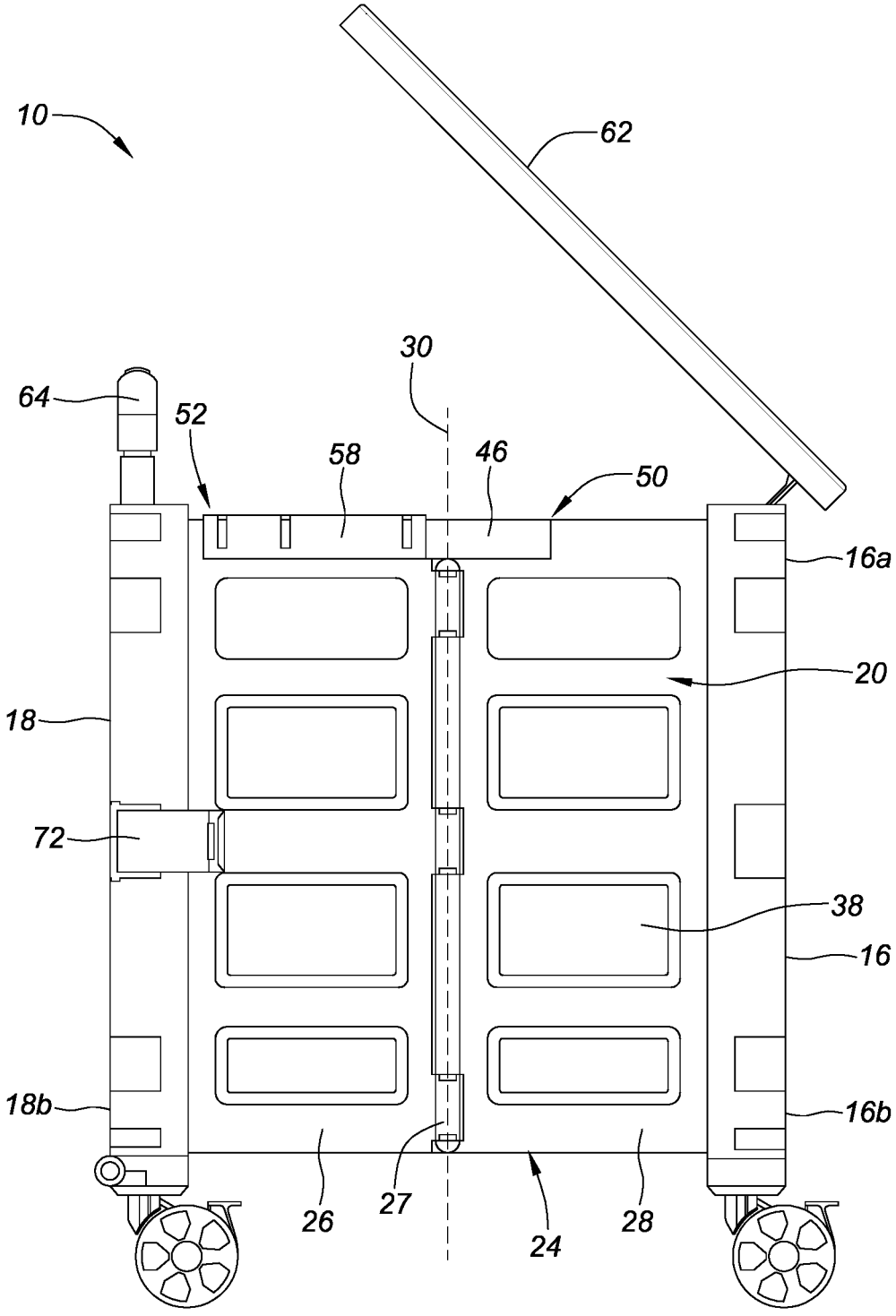


FIG. 19

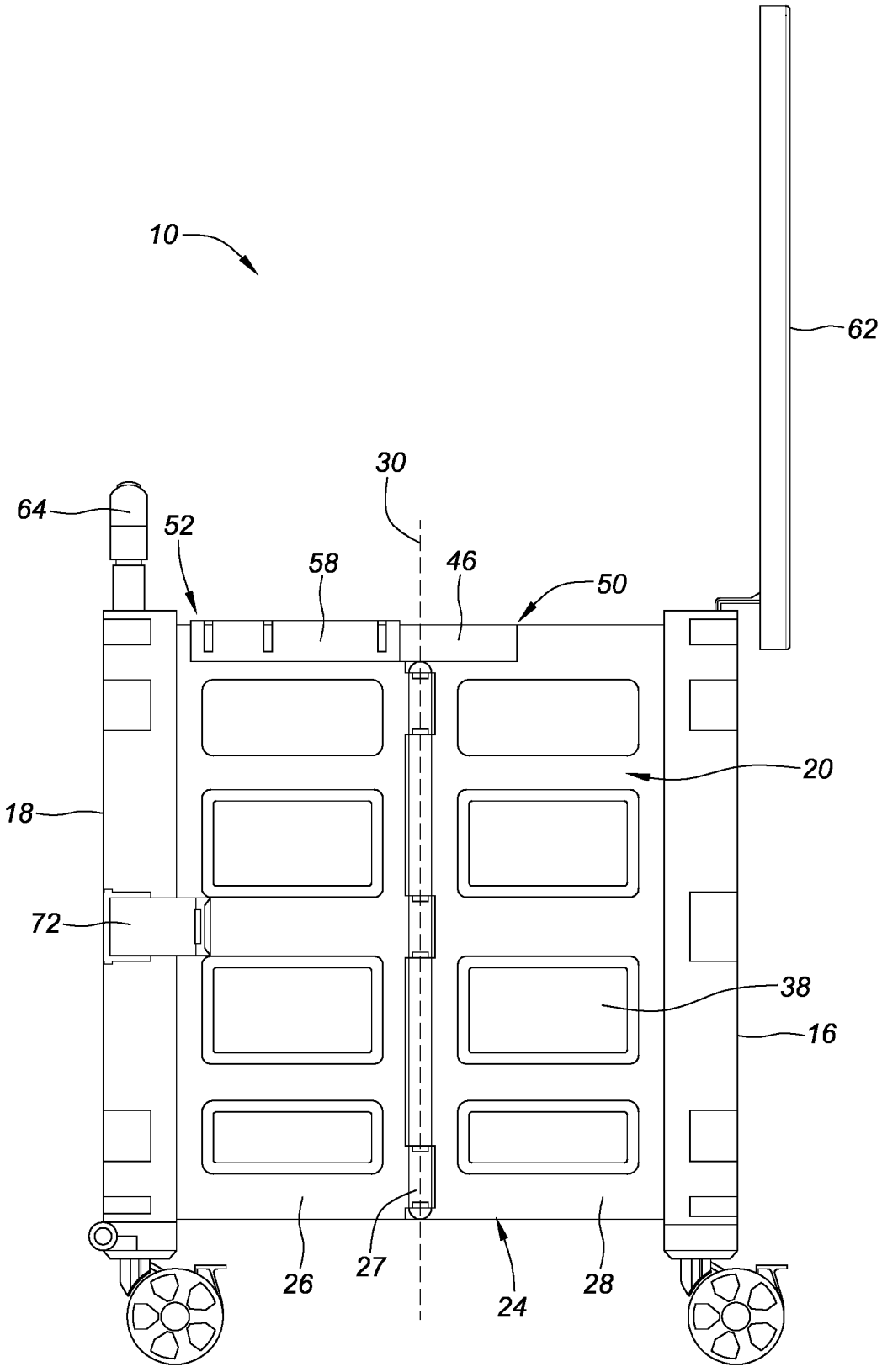


FIG. 20

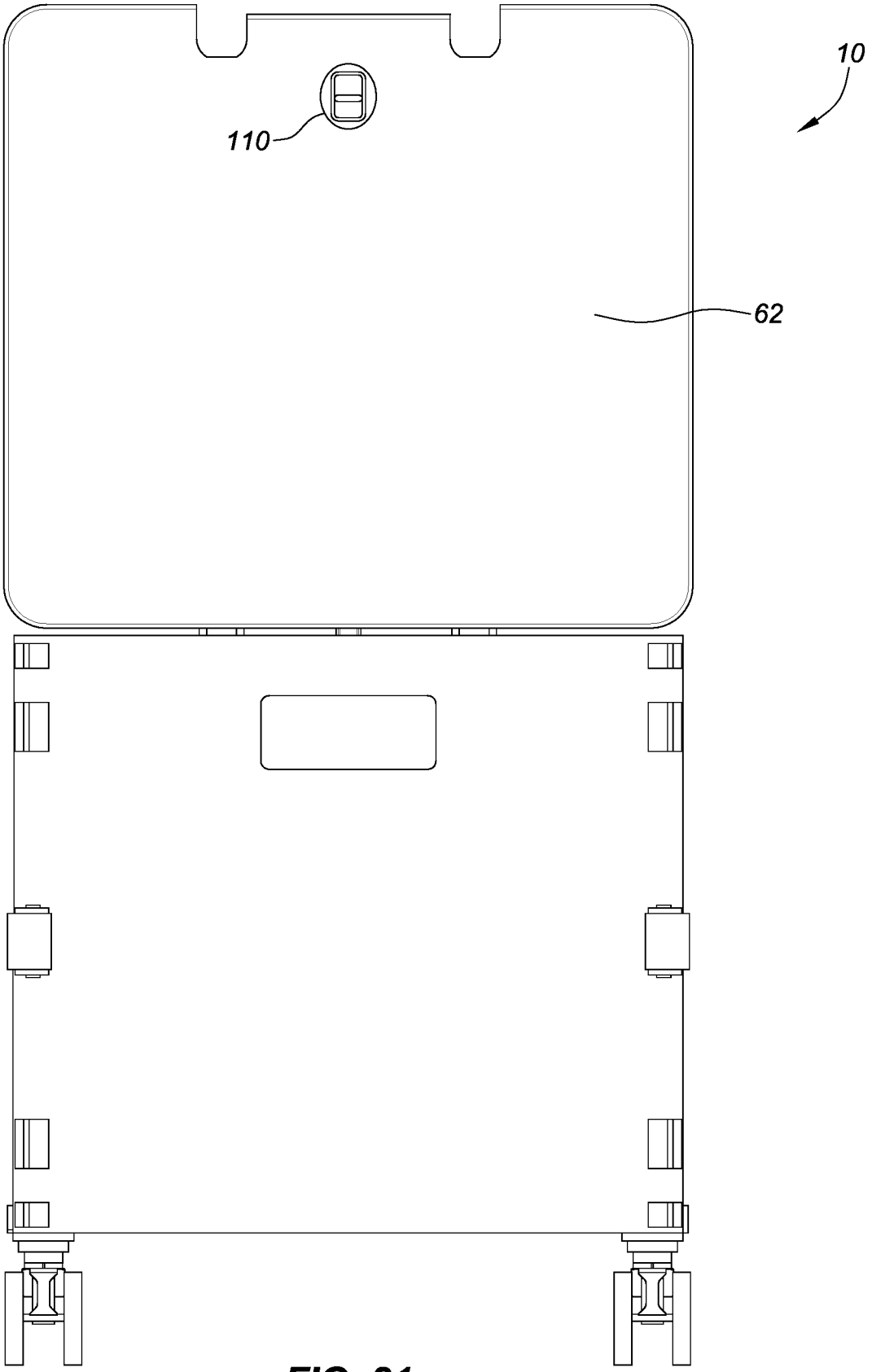


FIG. 21

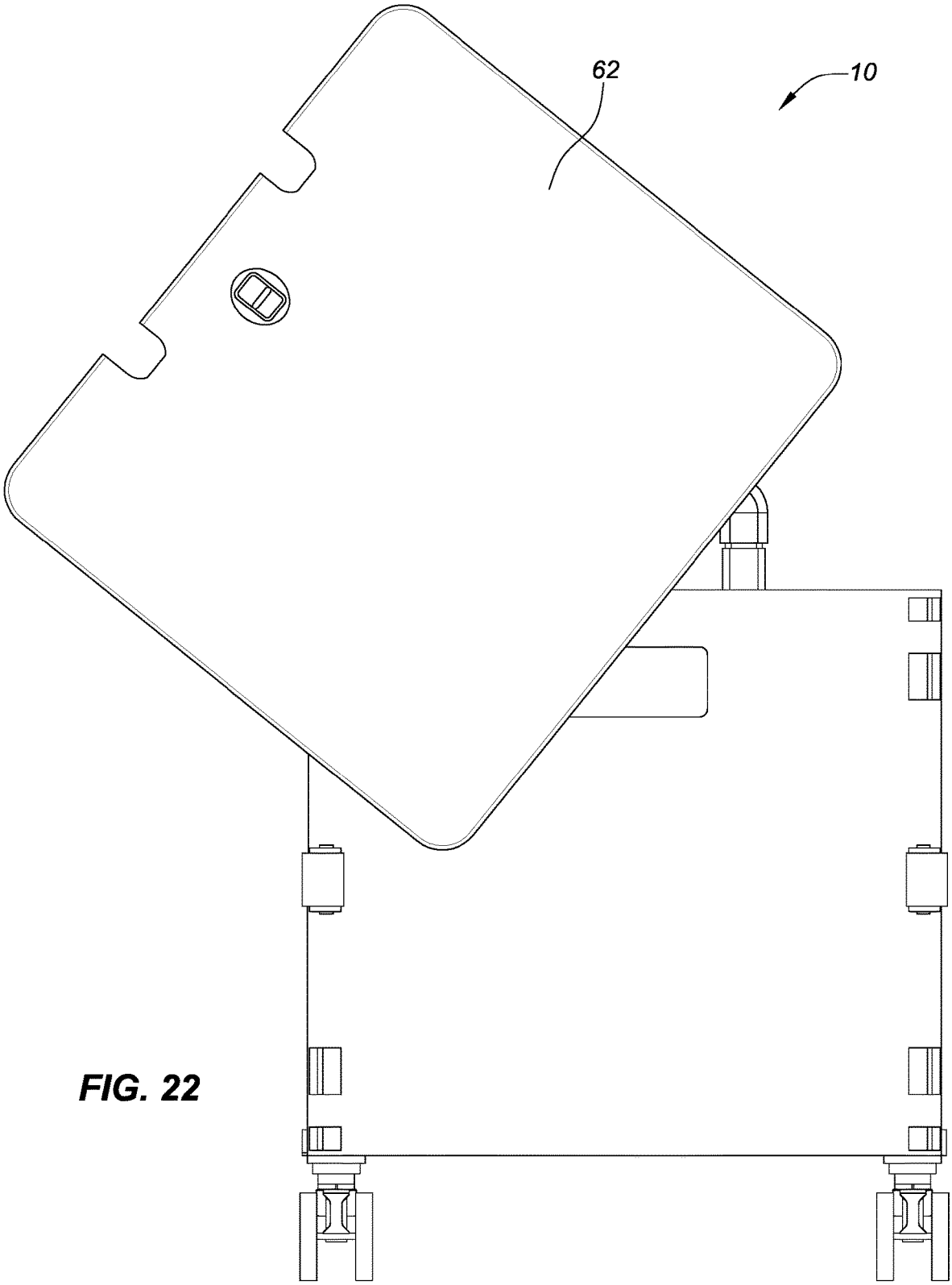


FIG. 22

FIG. 23

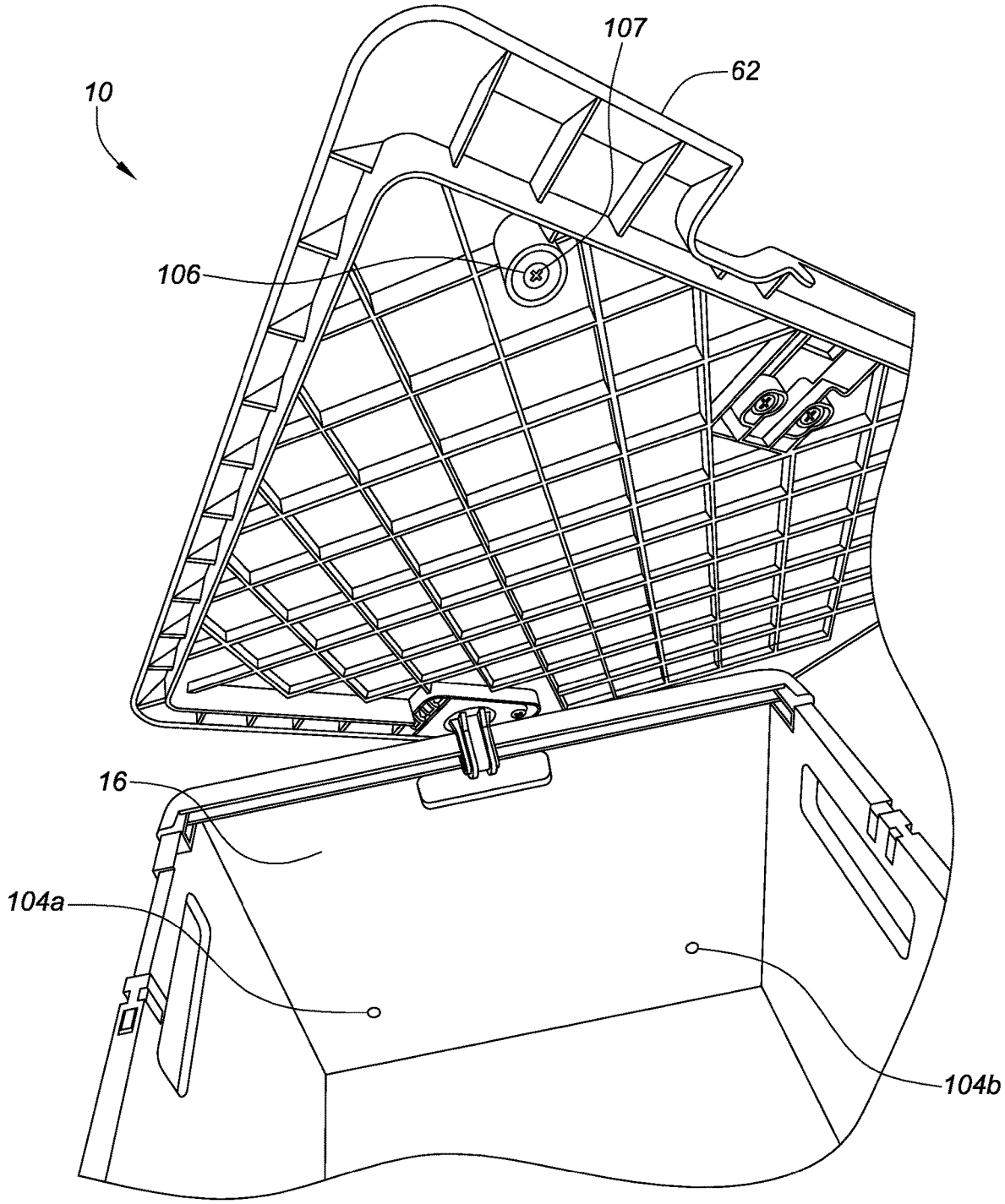


FIG. 24

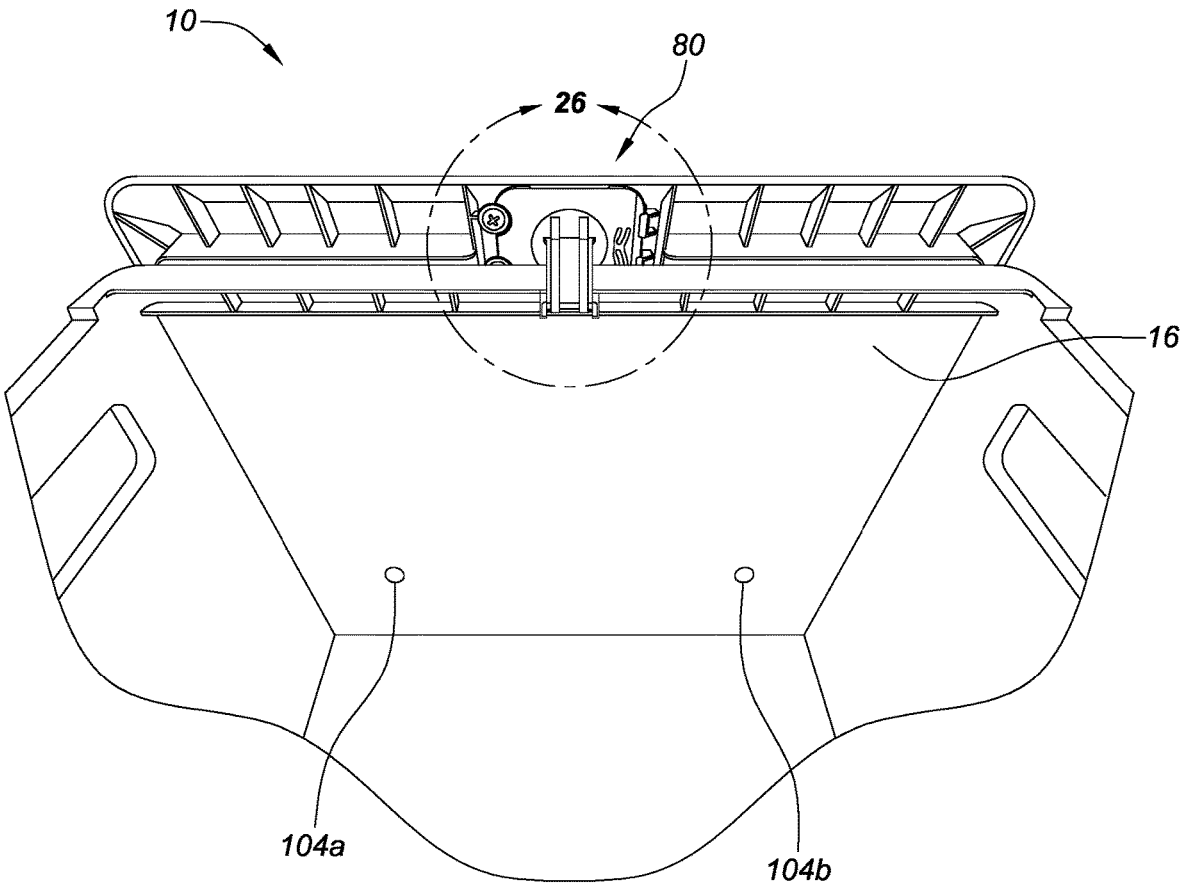


FIG. 25

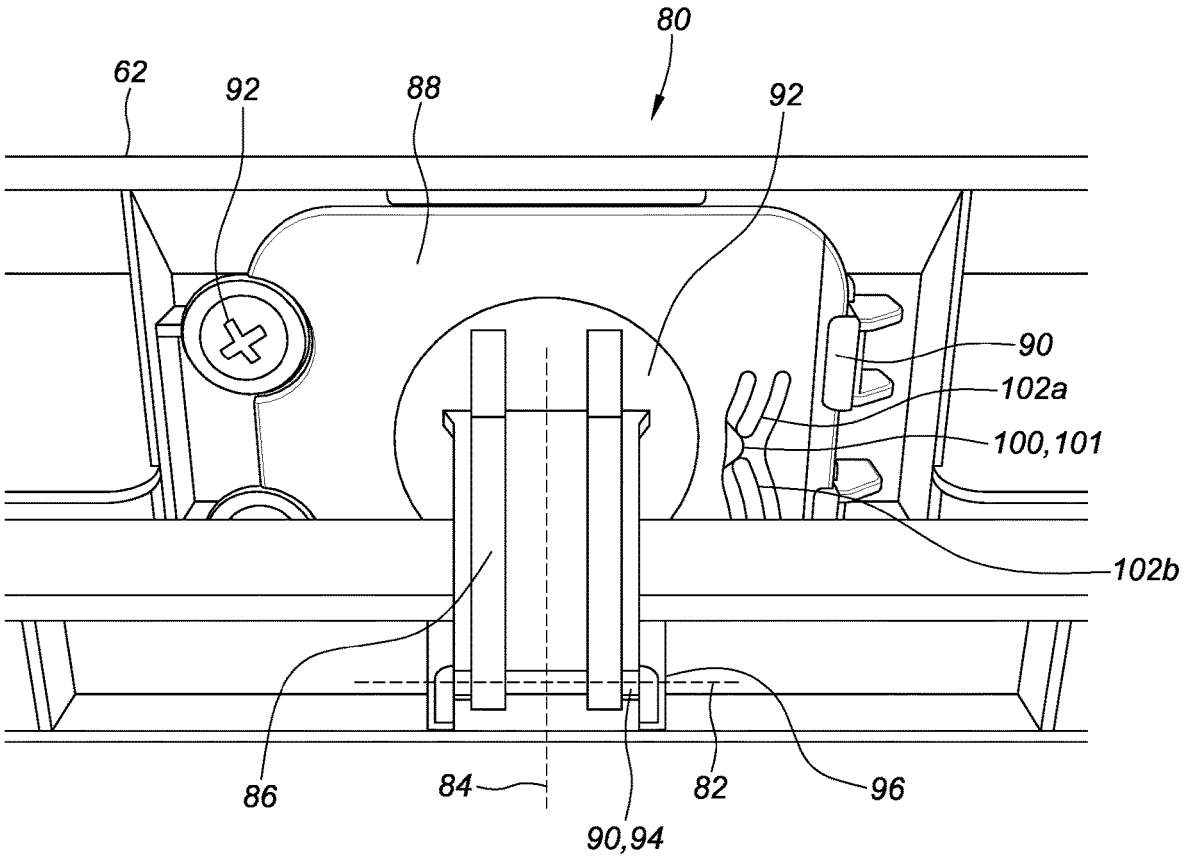


FIG. 26

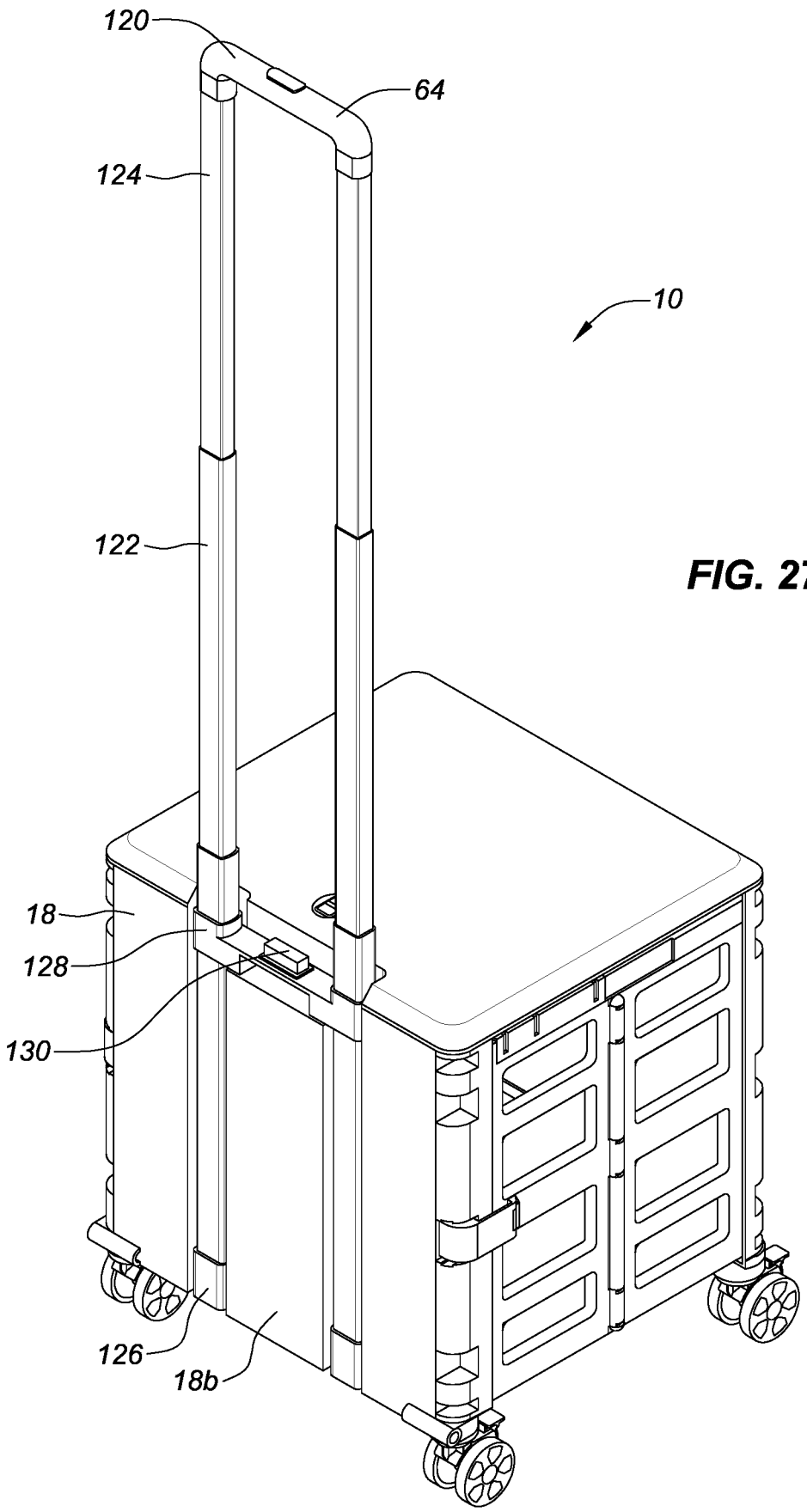


FIG. 27

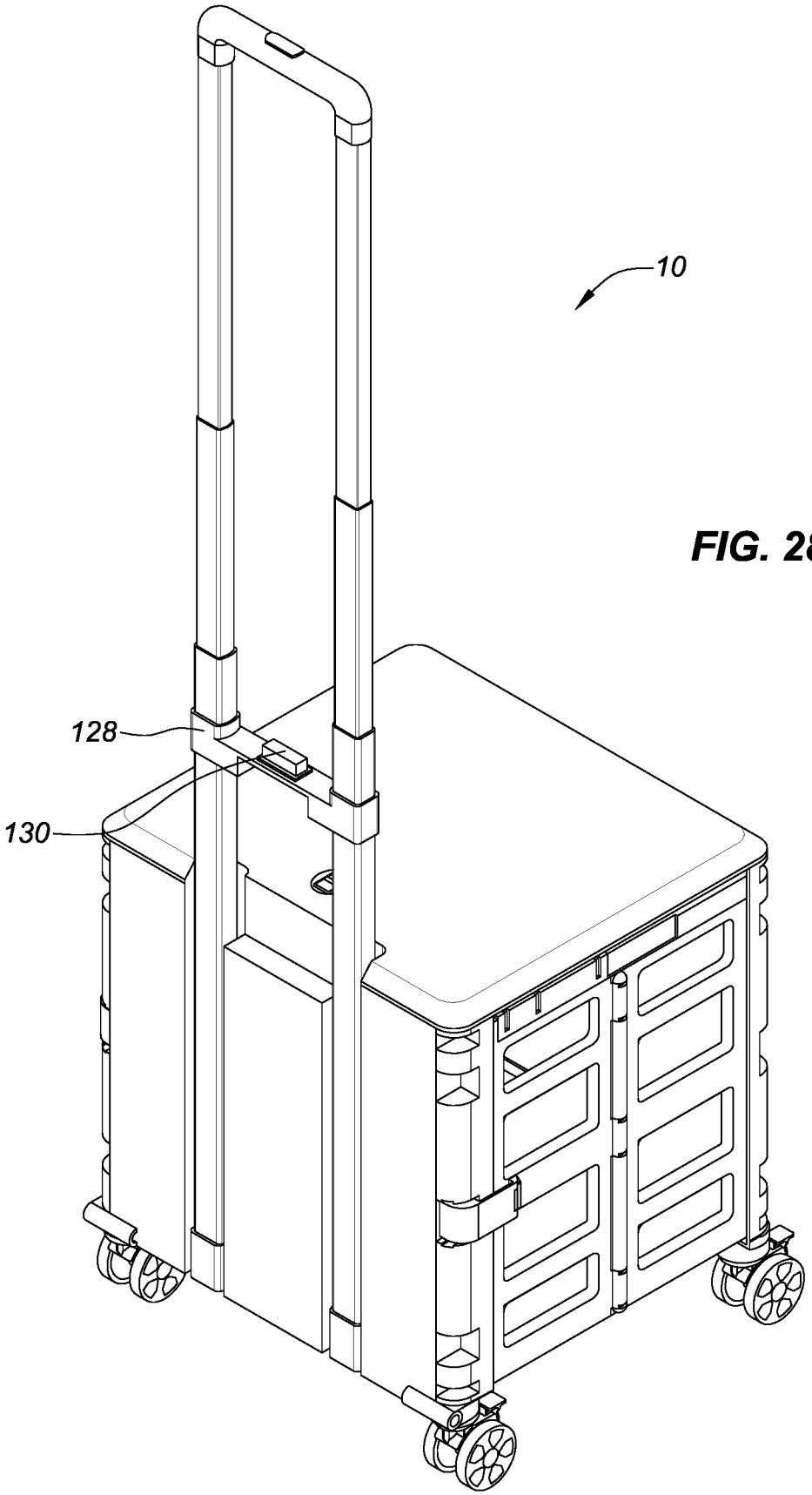


FIG. 28

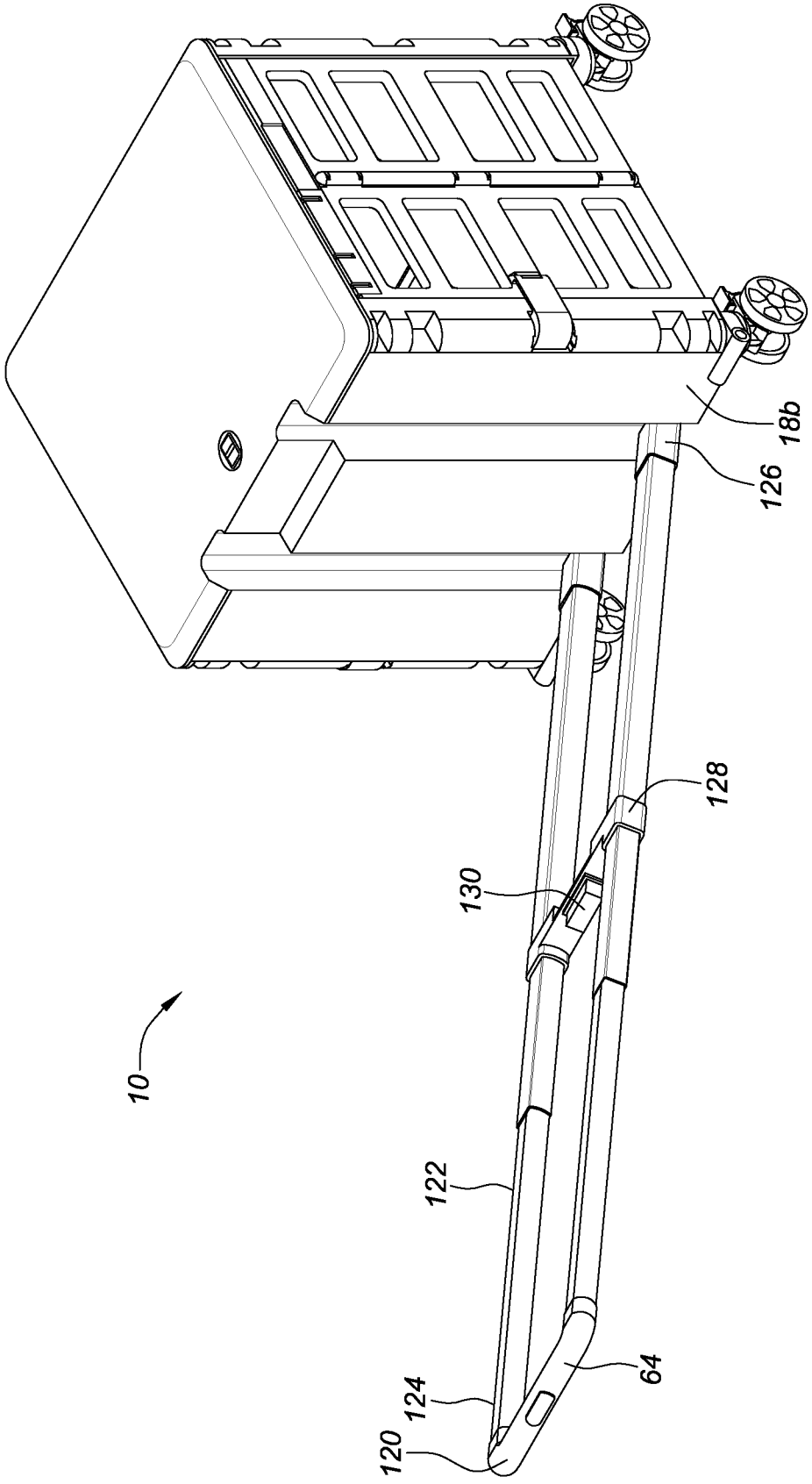


FIG. 29

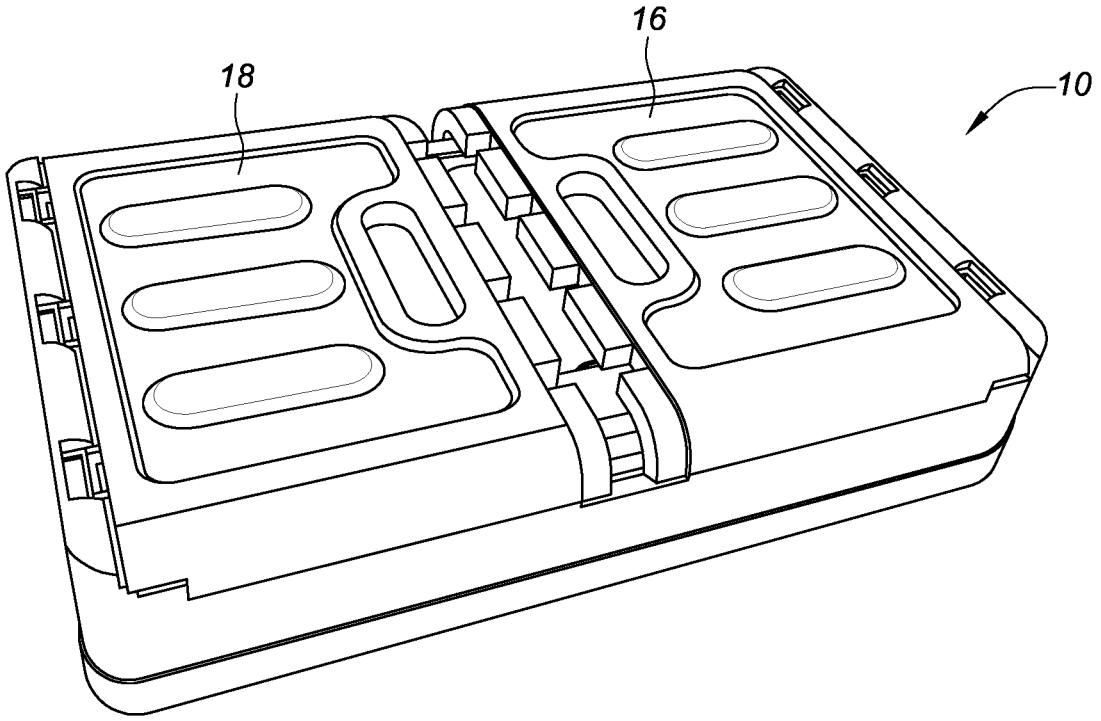


FIG. 30

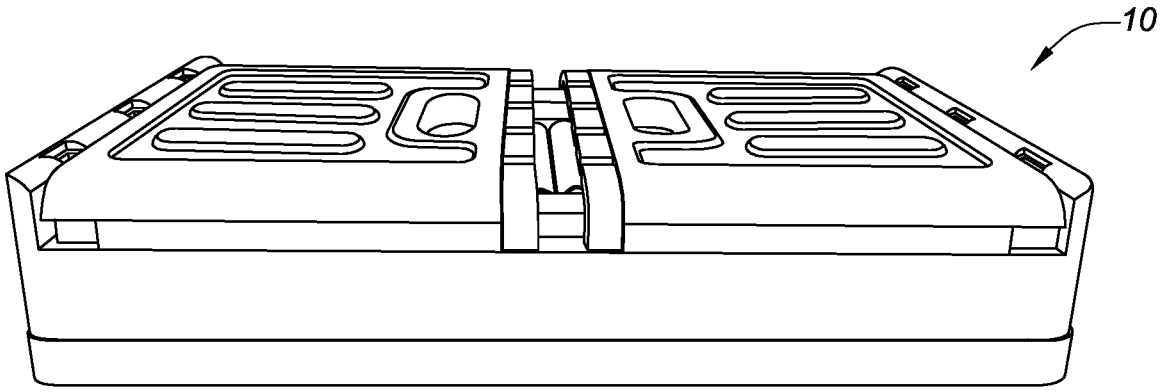


FIG. 31

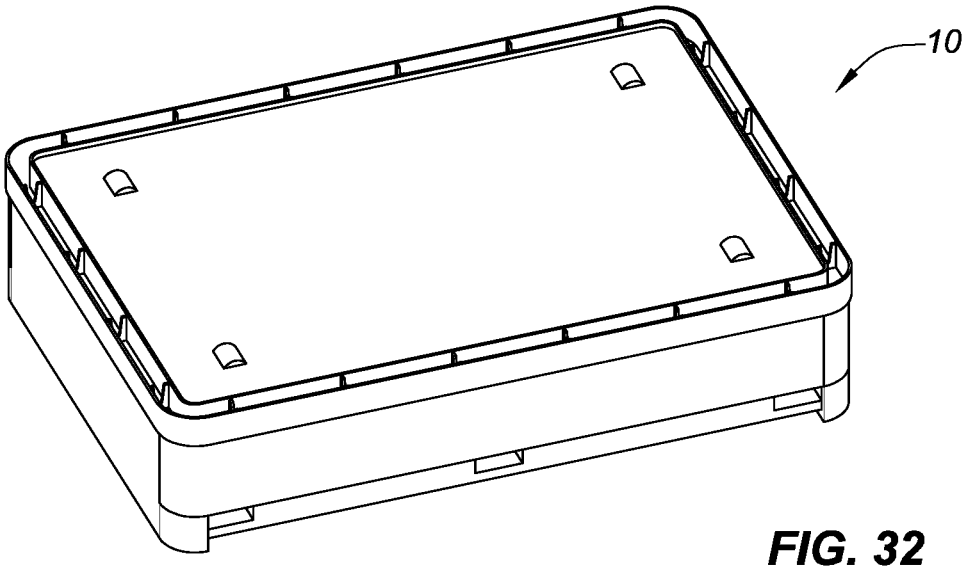


FIG. 32

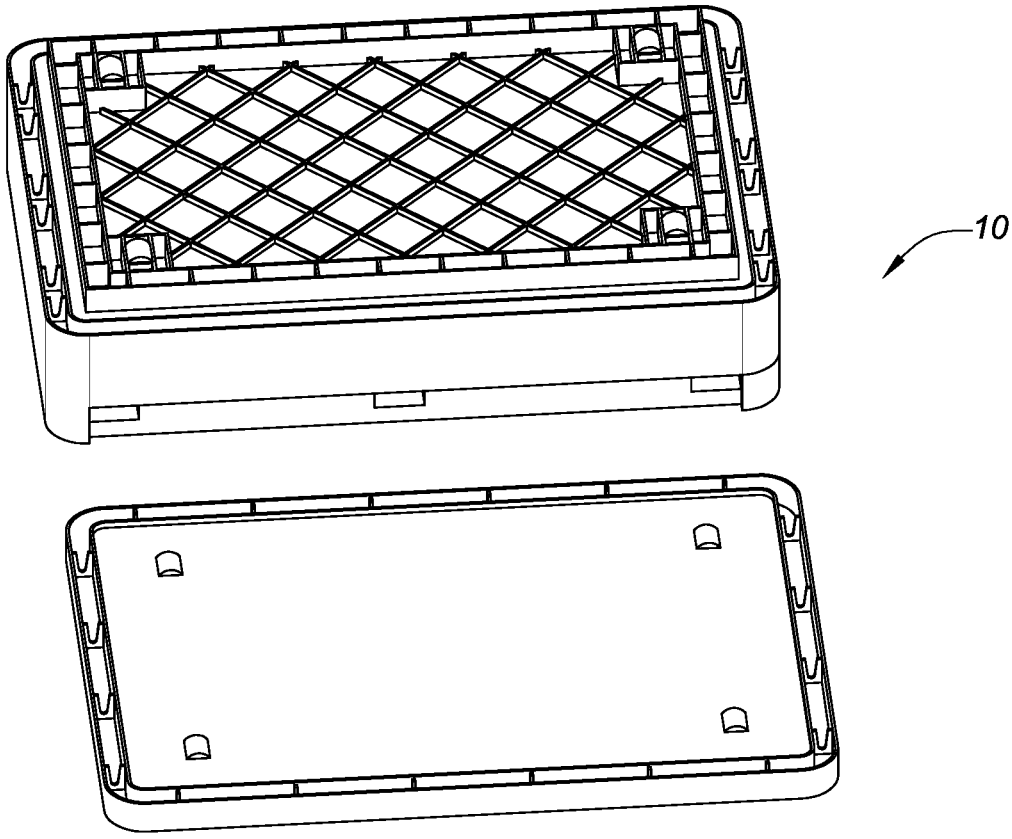


FIG. 33

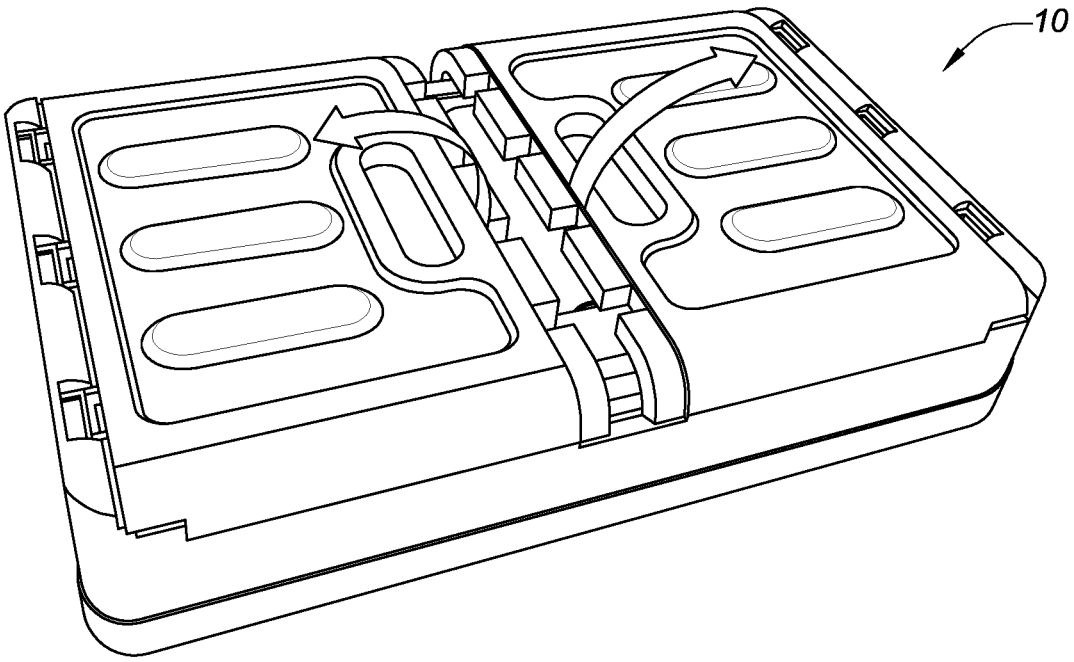


FIG. 34

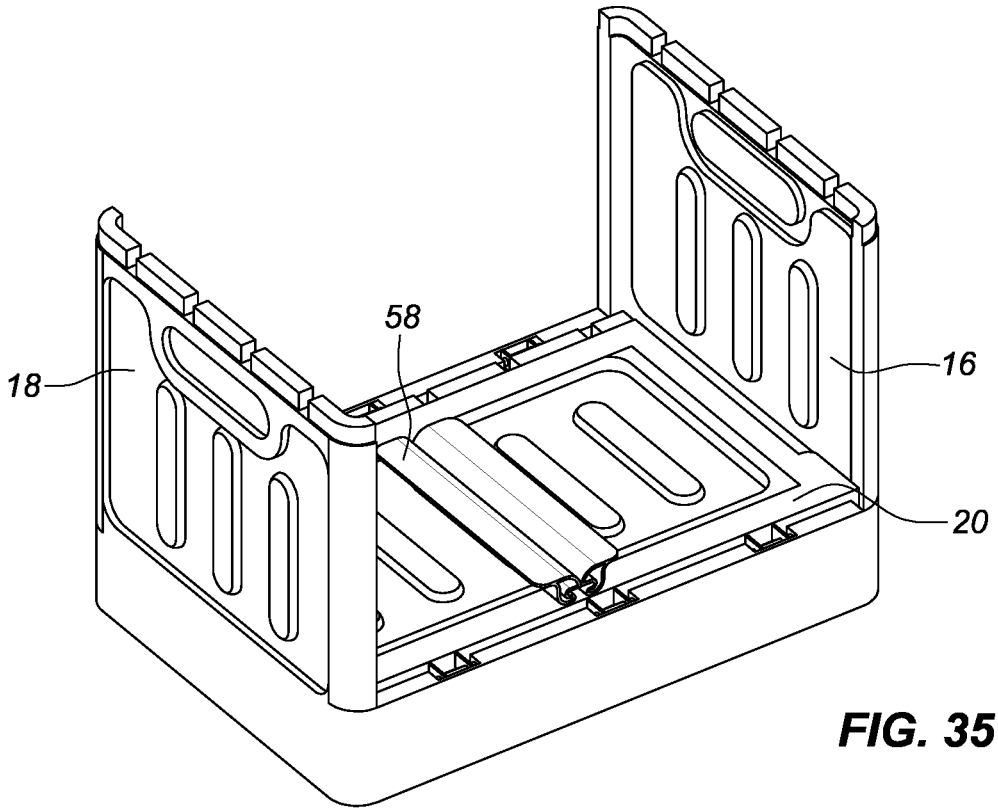


FIG. 35

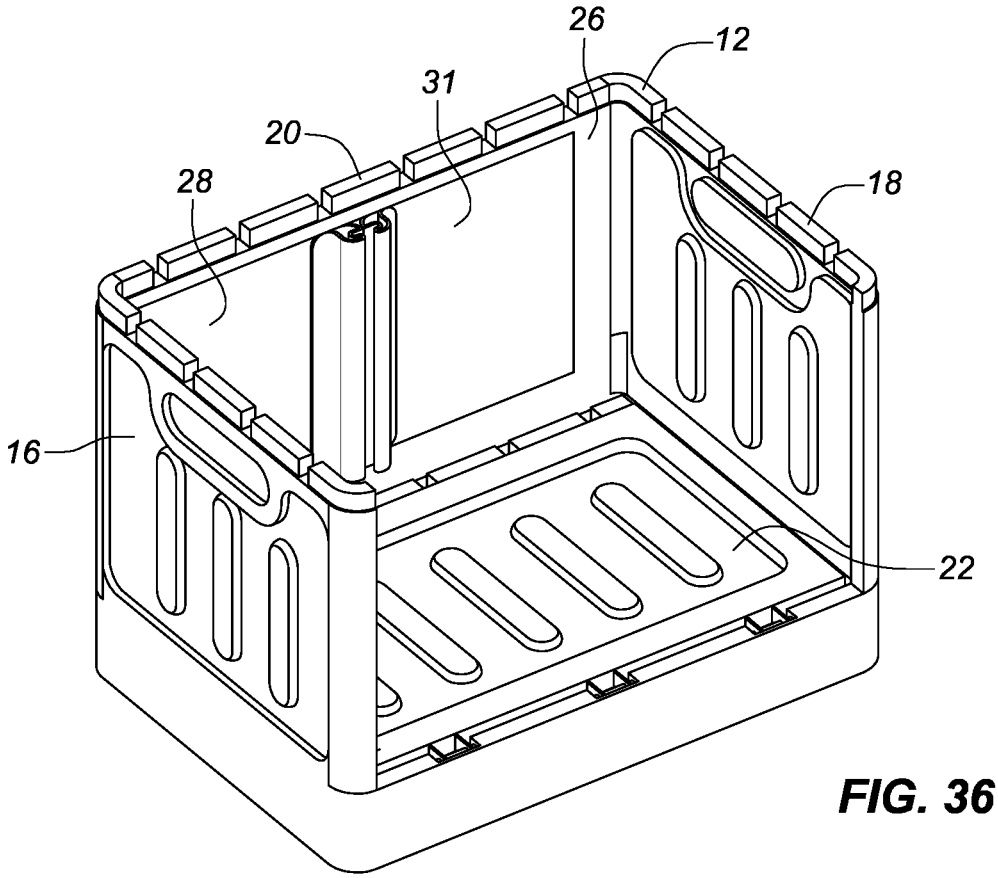


FIG. 36

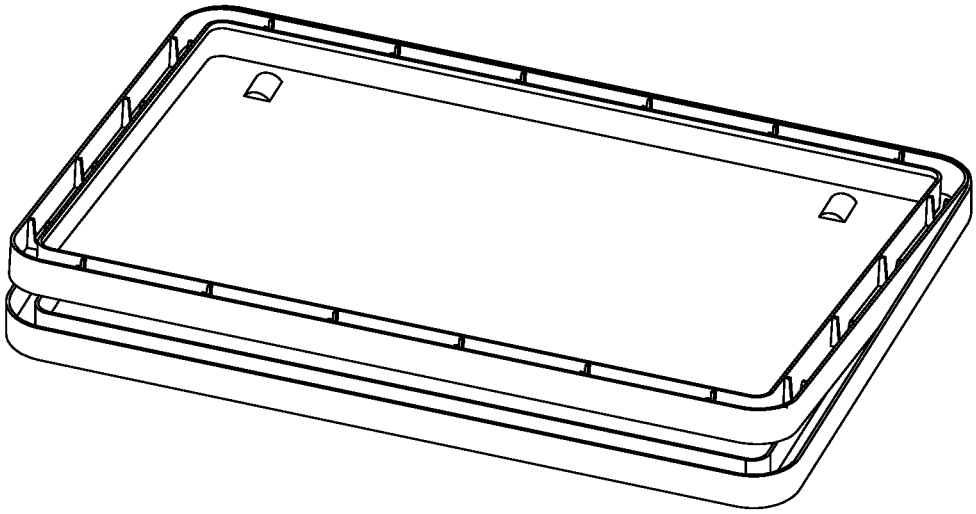


FIG. 37

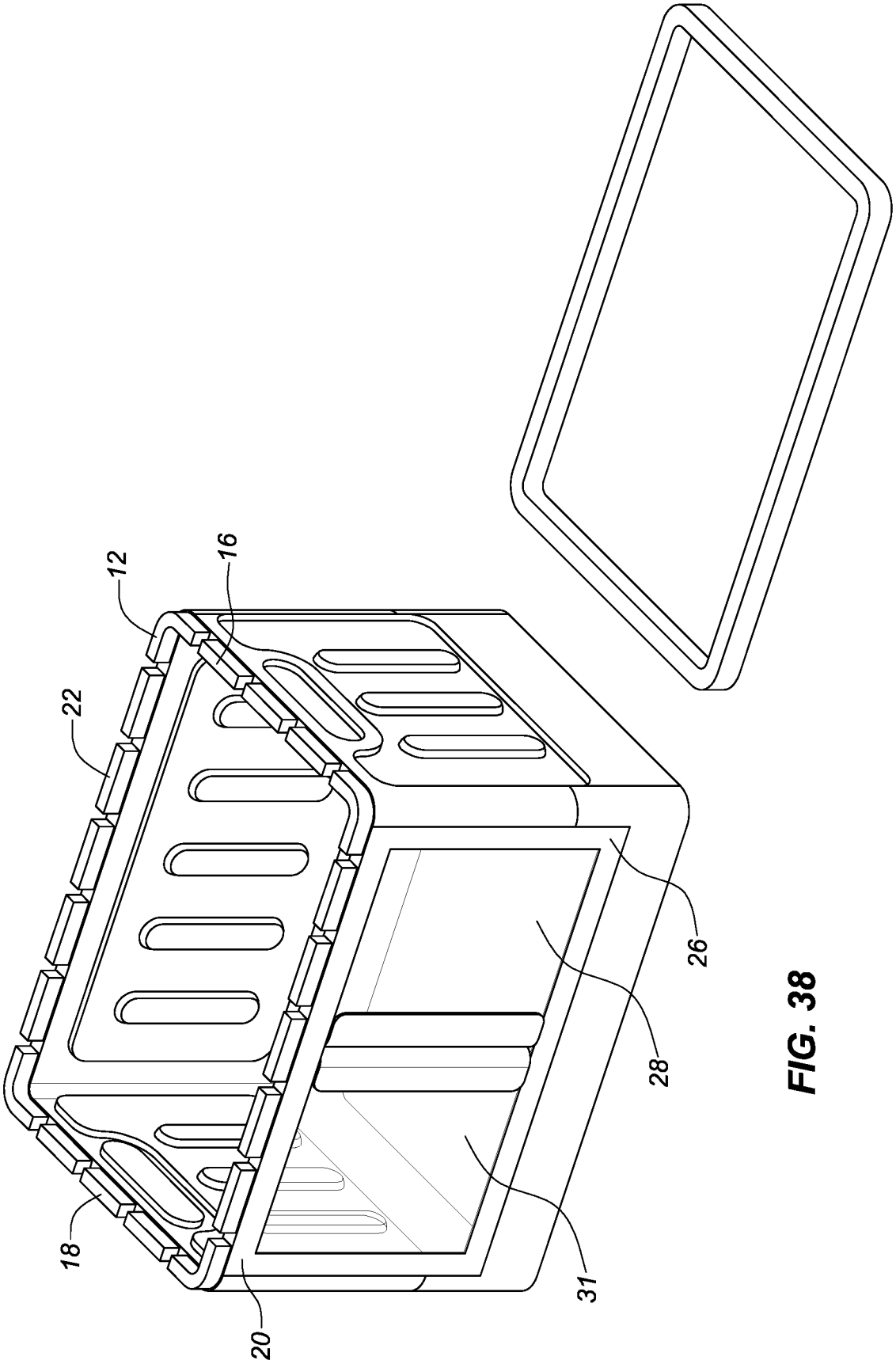


FIG. 38

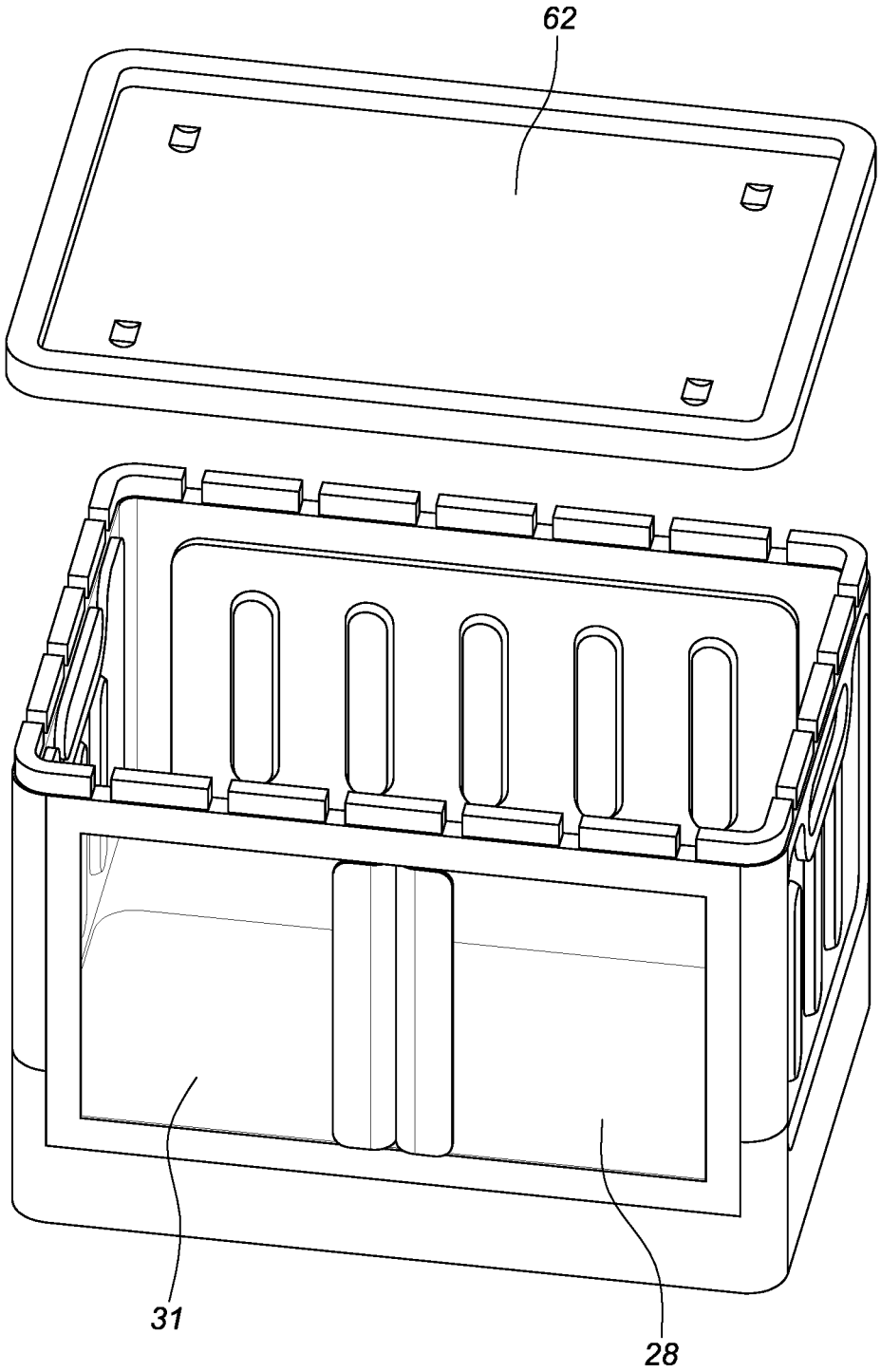


FIG. 39

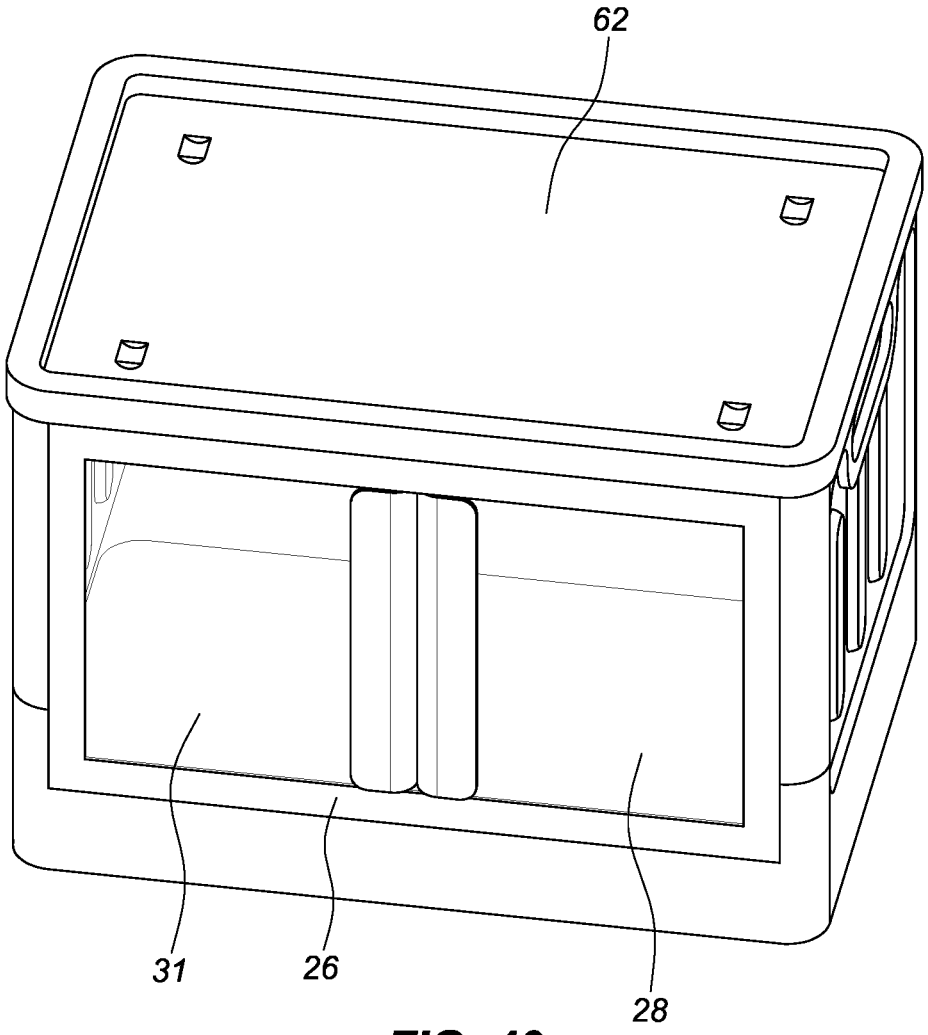


FIG. 40

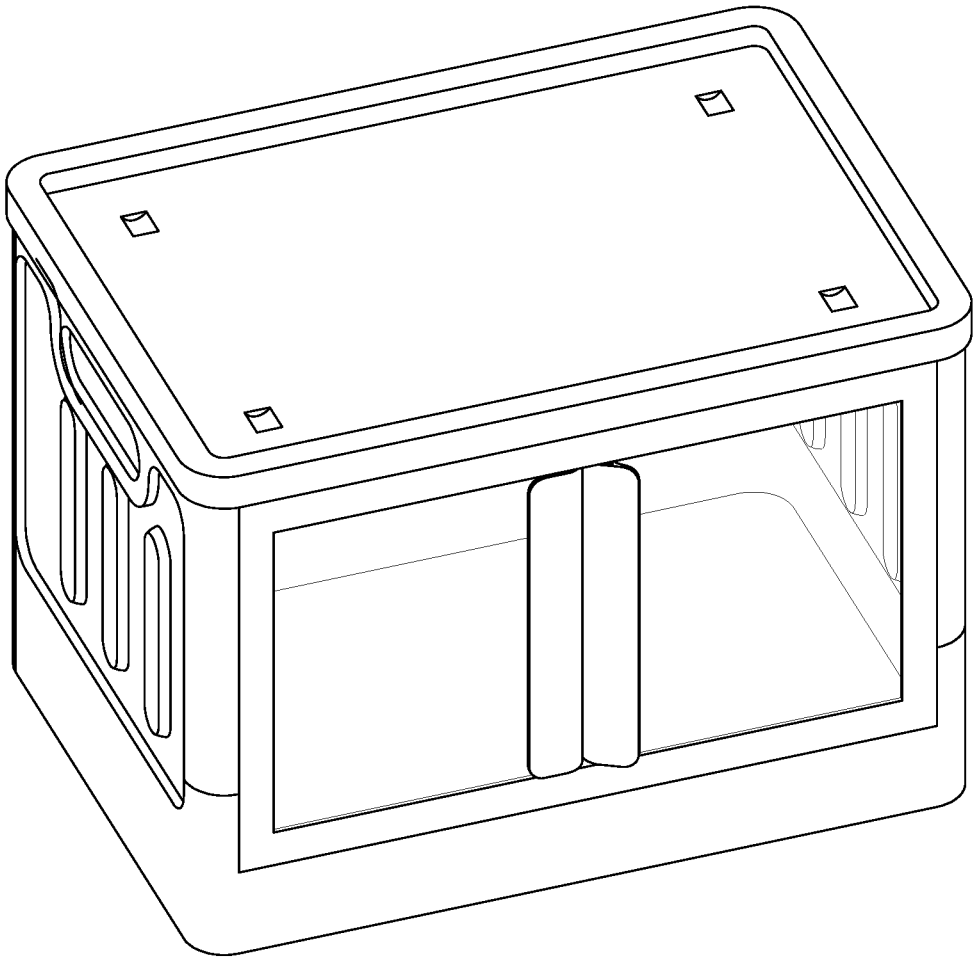


FIG. 41

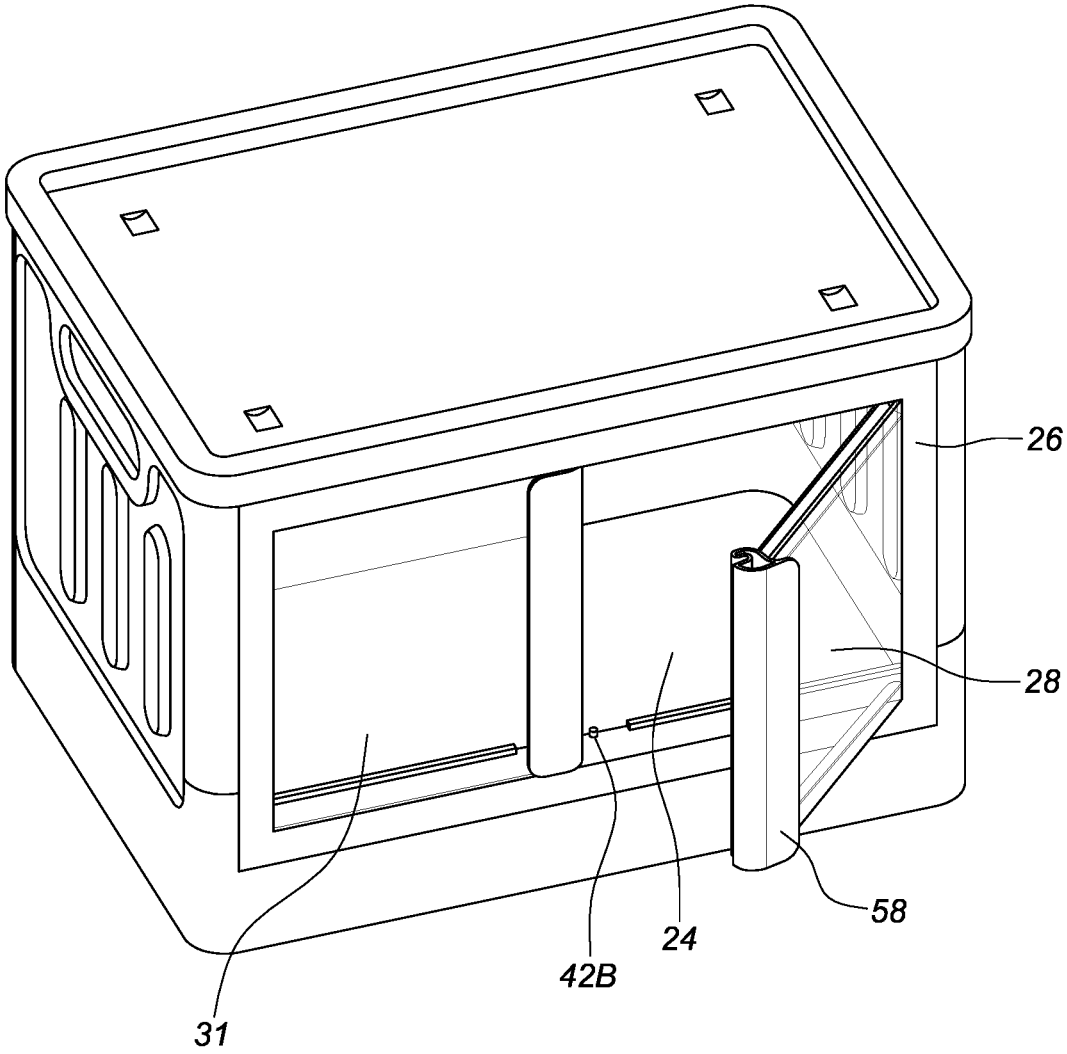


FIG. 42A

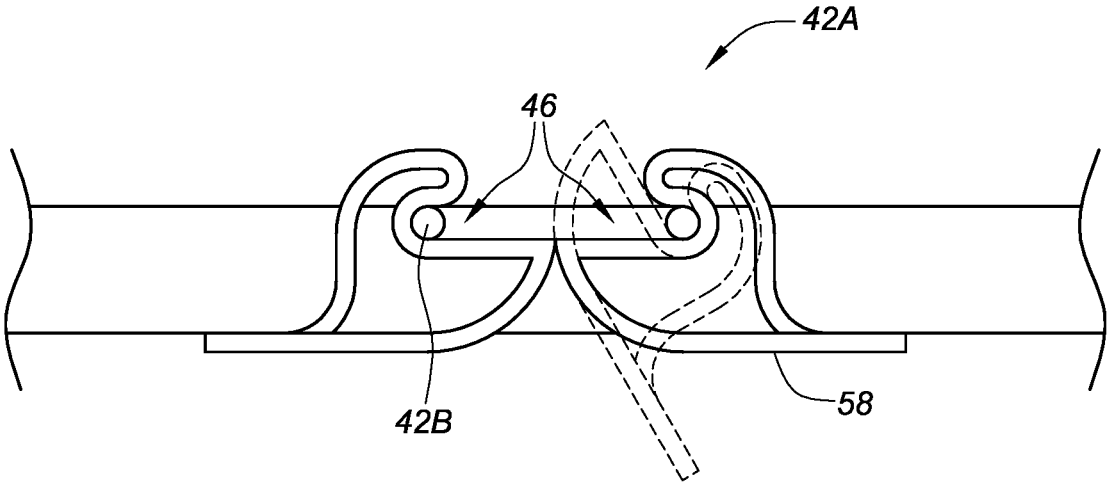


FIG. 42B

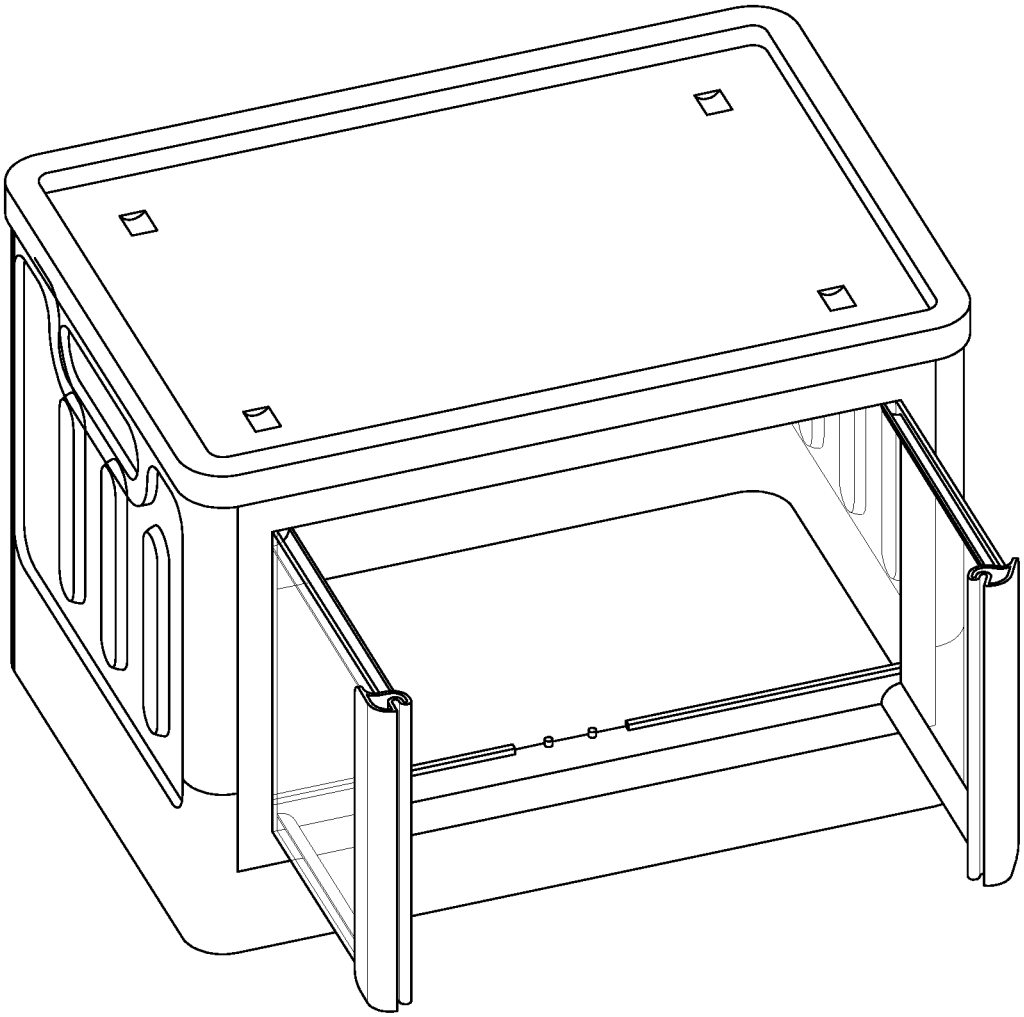


FIG. 43

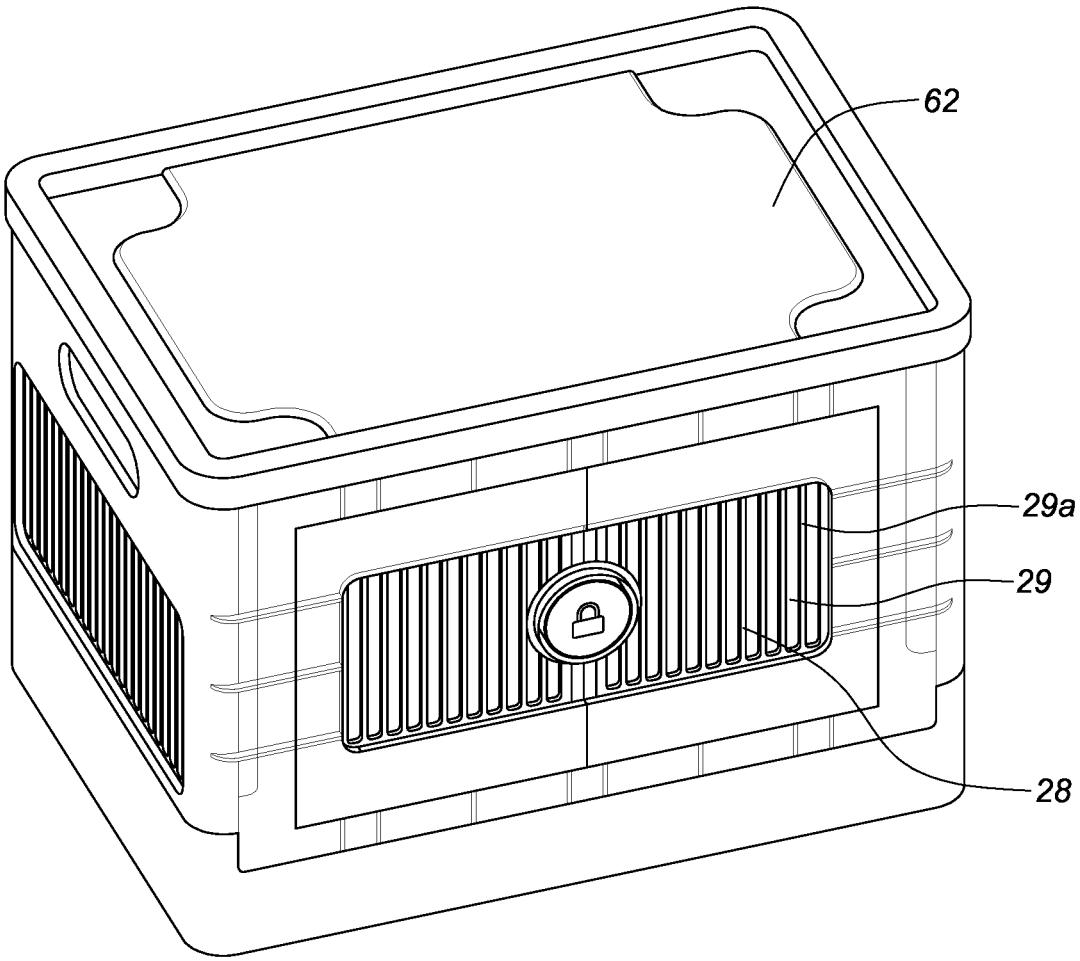


FIG. 44

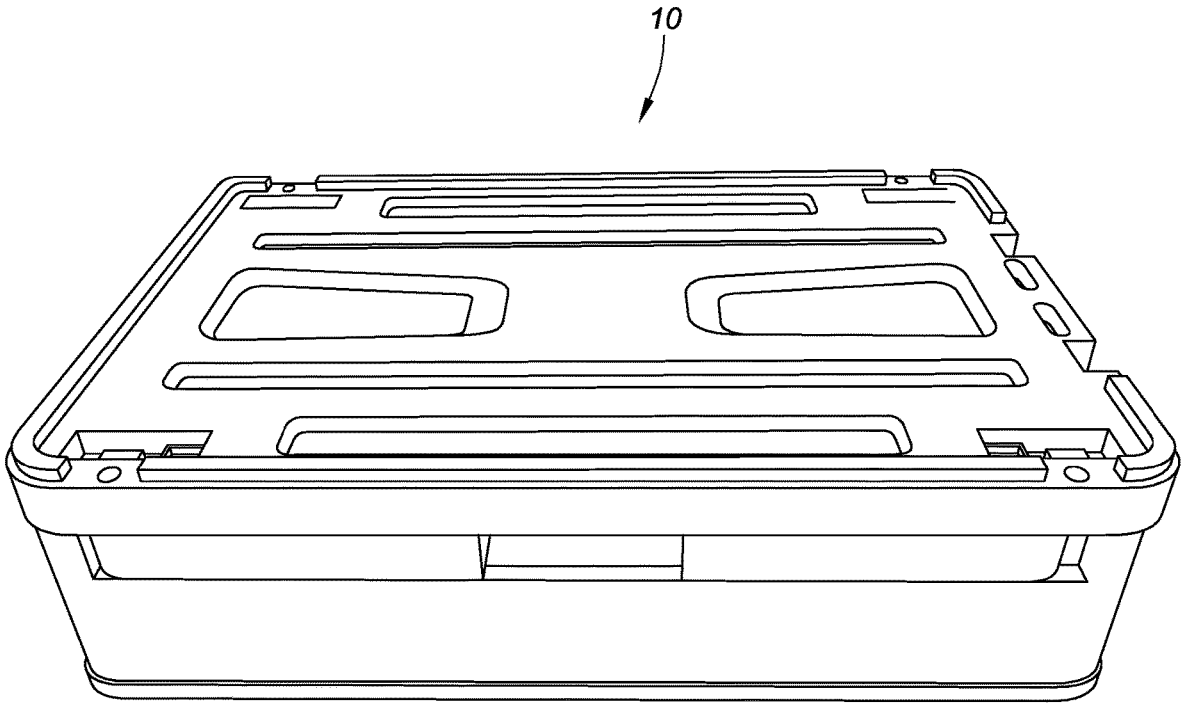


FIG. 45

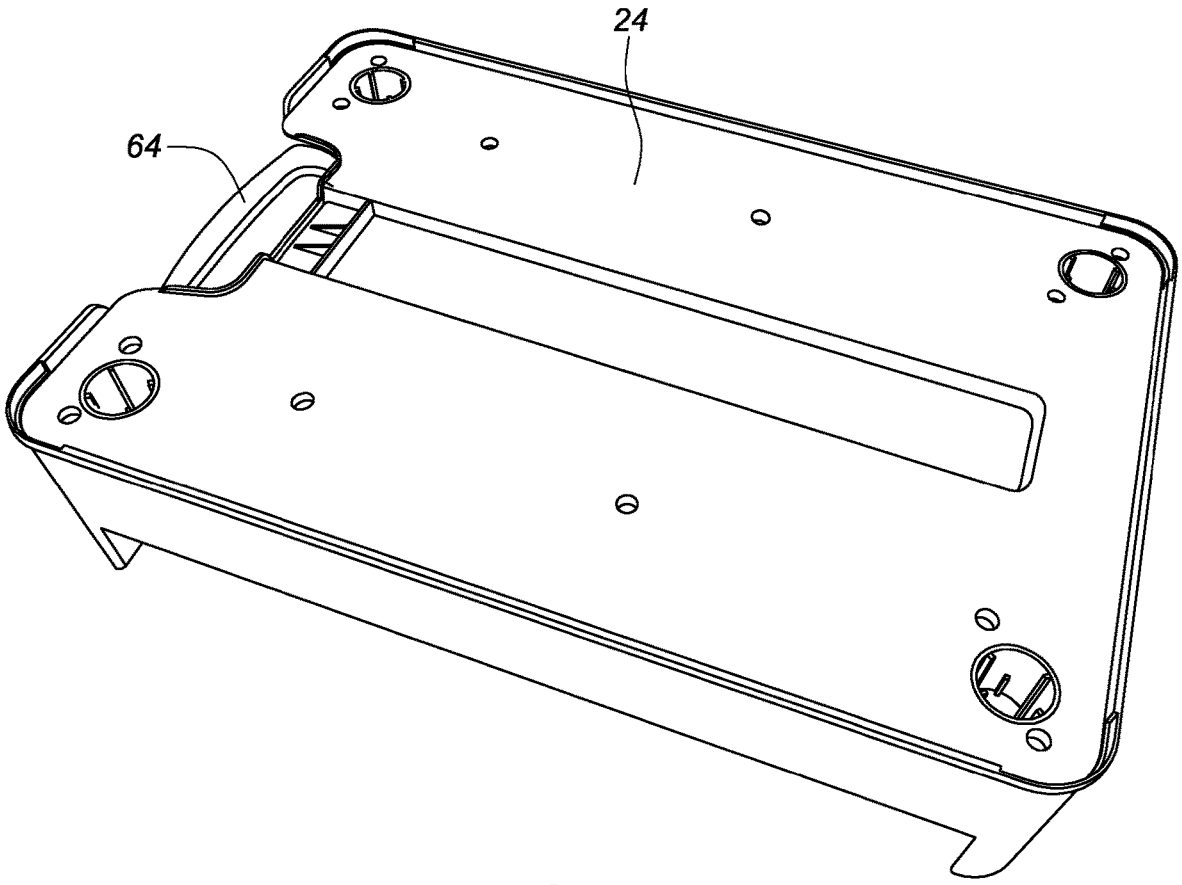


FIG. 46

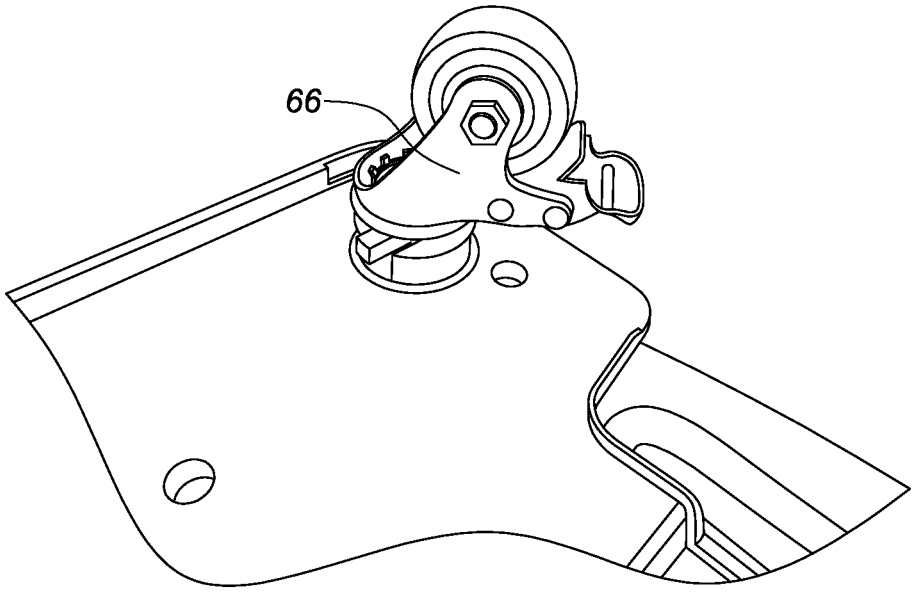


FIG. 47

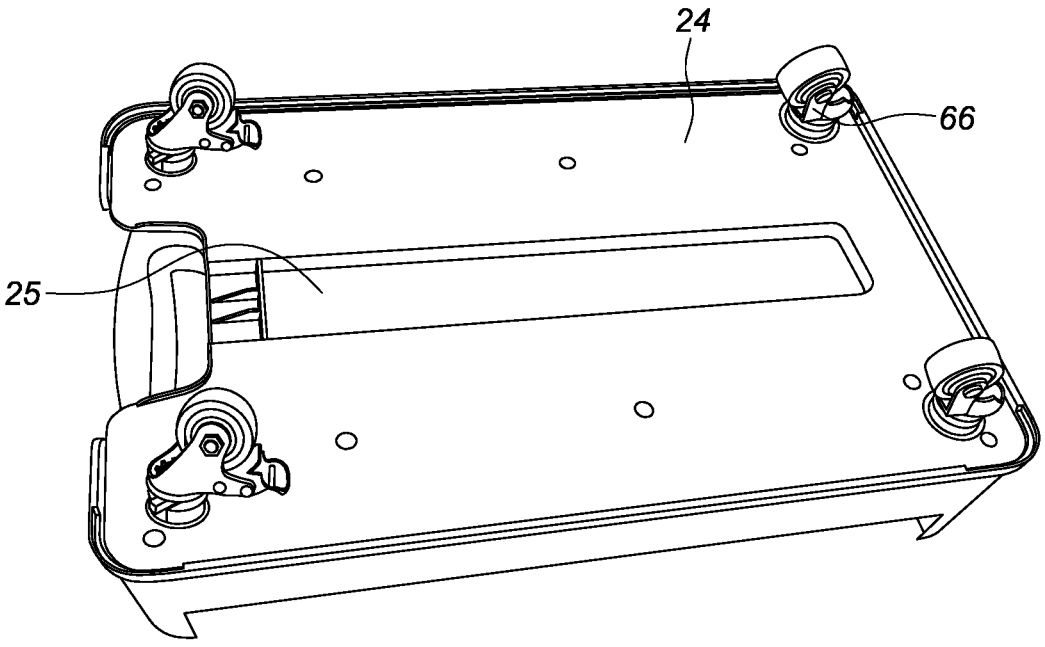


FIG. 48

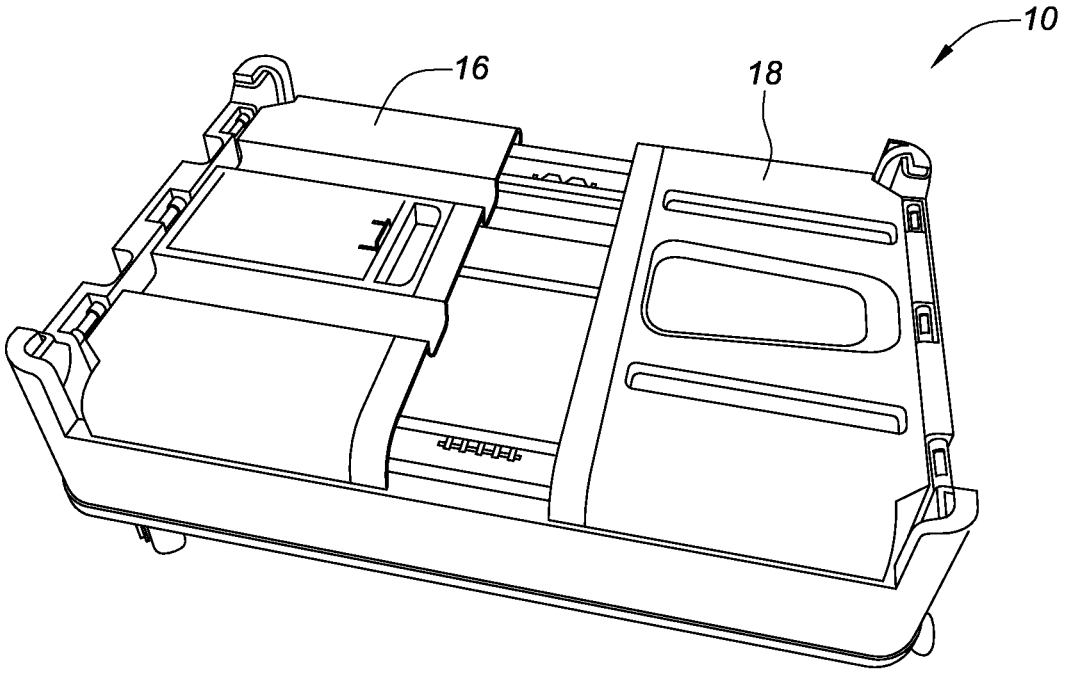


FIG. 49

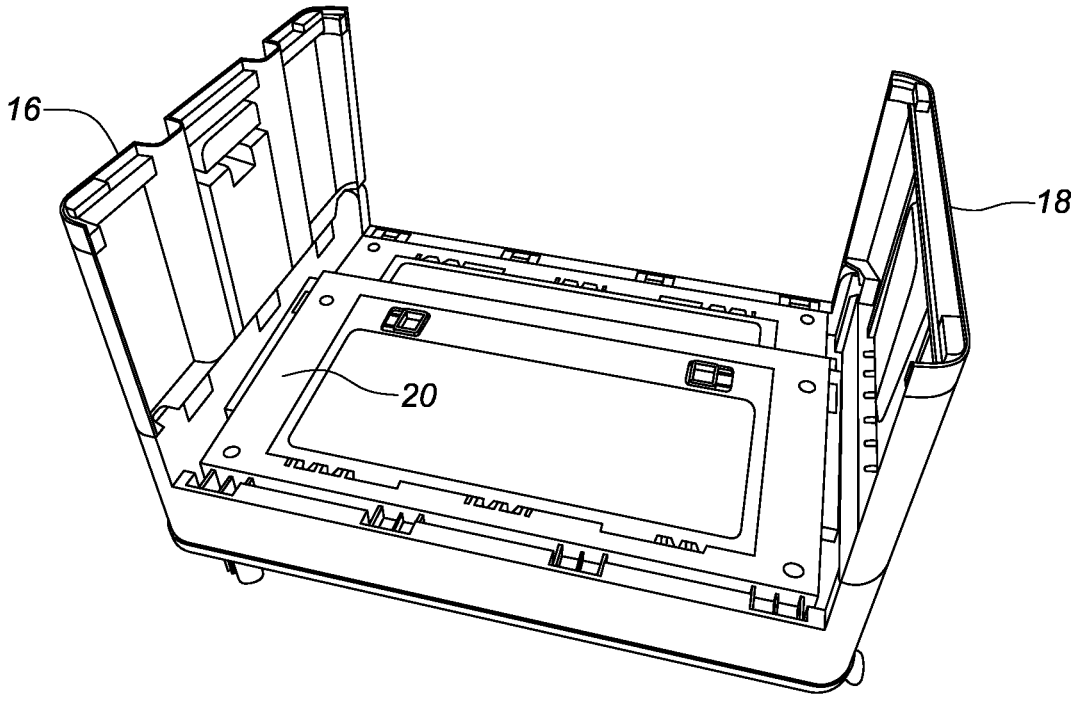


FIG. 50

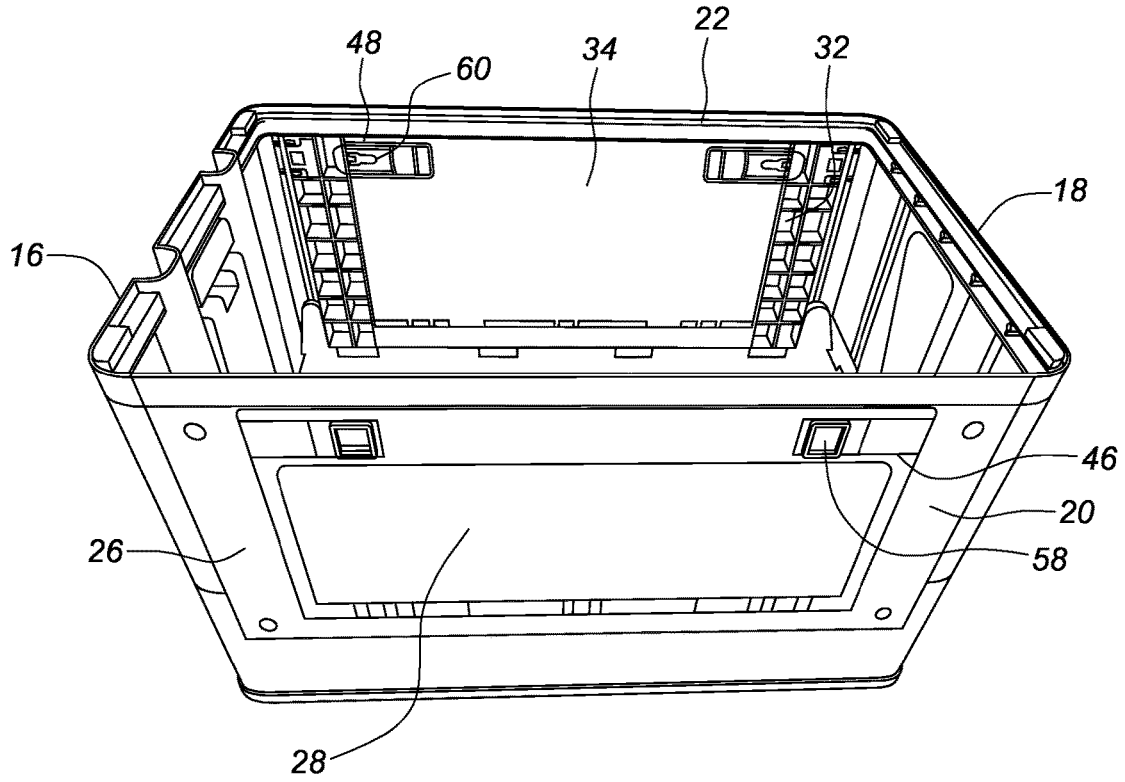


FIG. 51

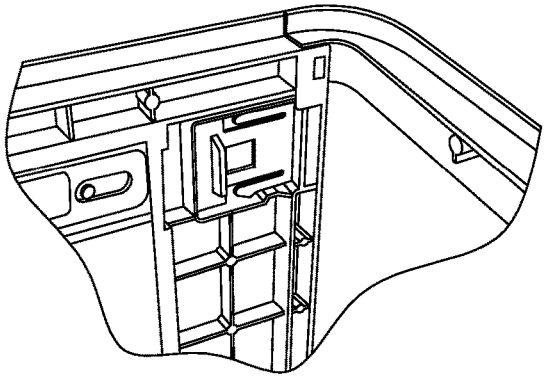


FIG. 52

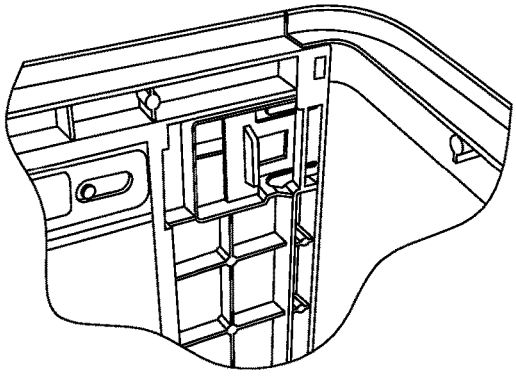


FIG. 53

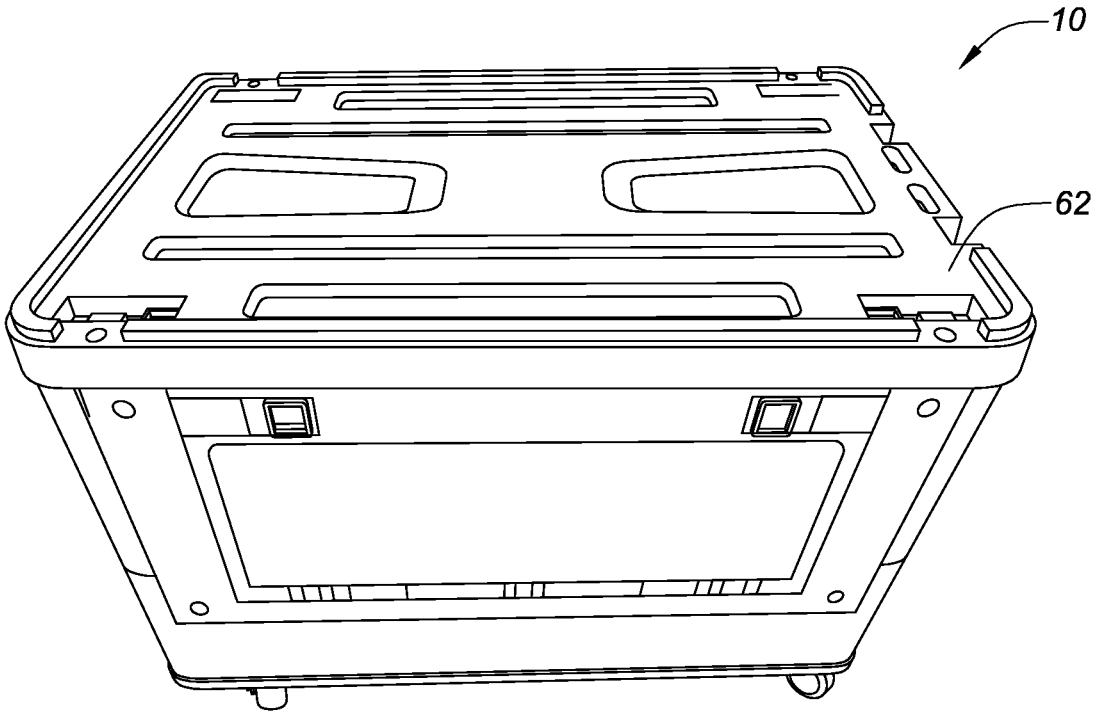


FIG. 54

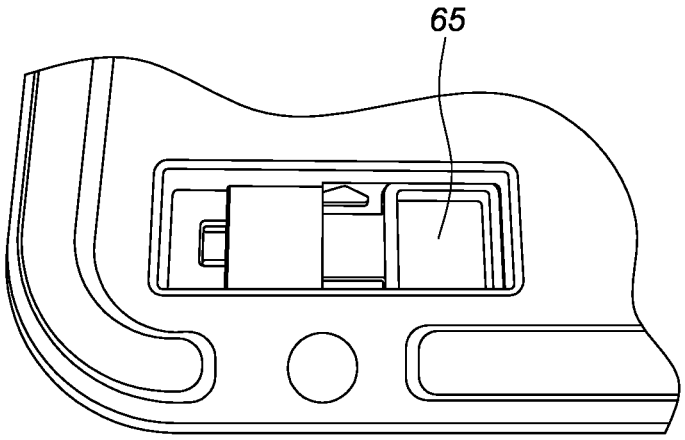


FIG. 55

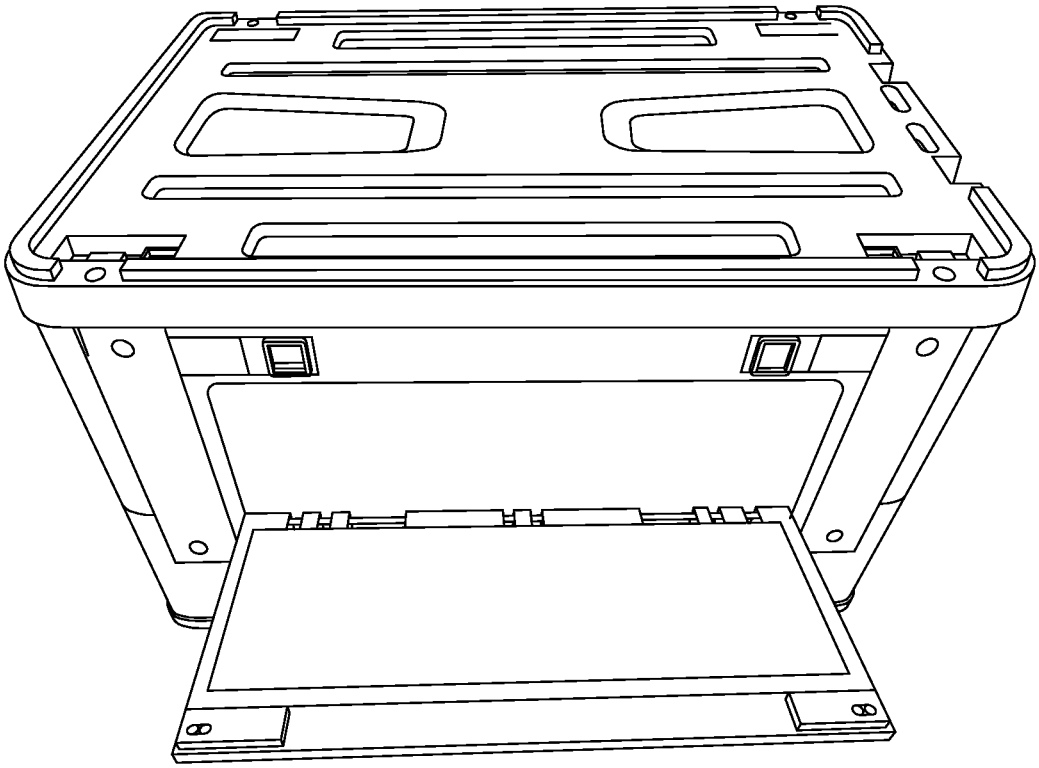


FIG. 56

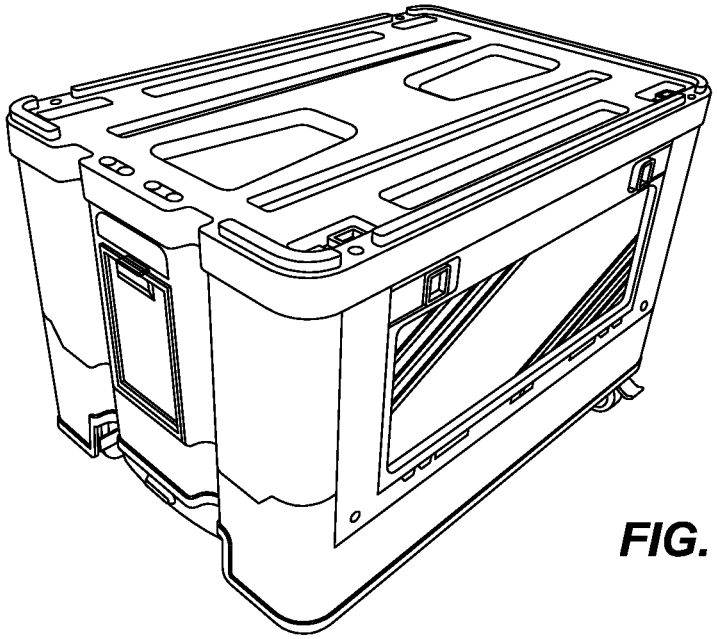


FIG. 57

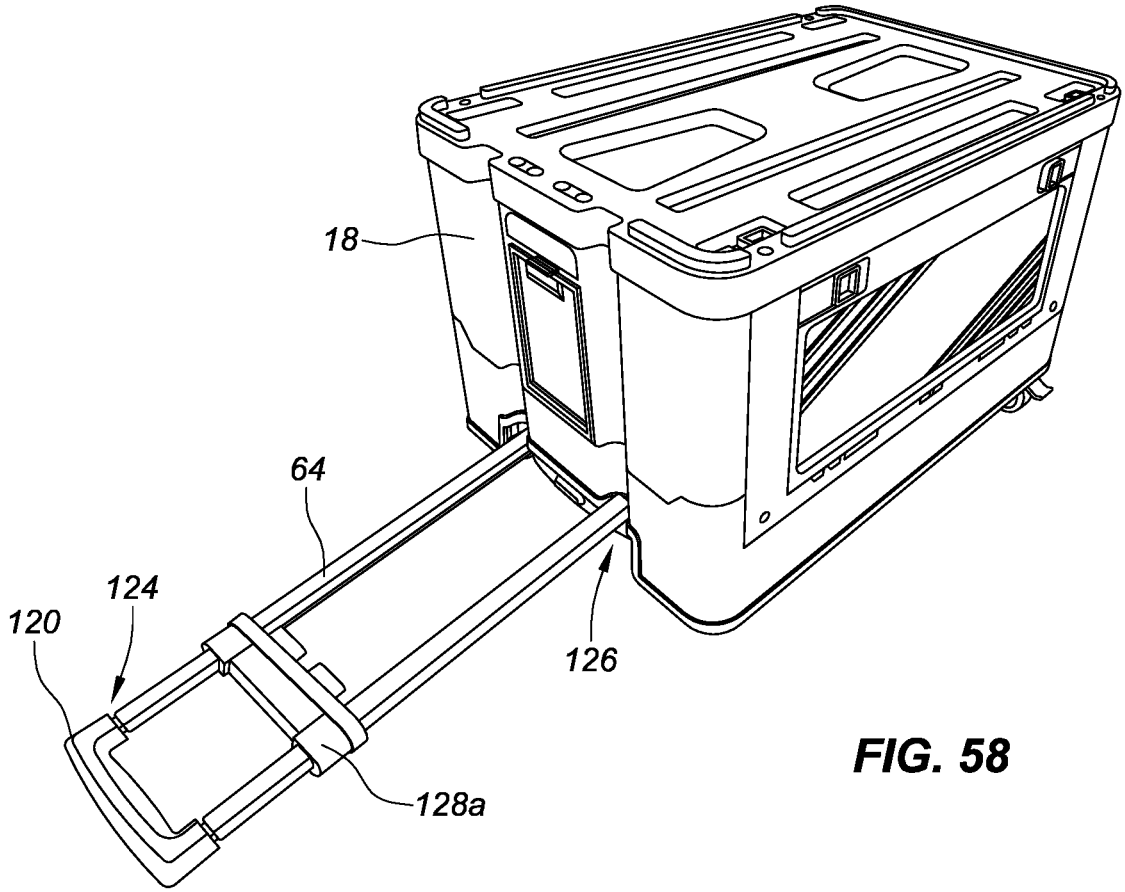


FIG. 58

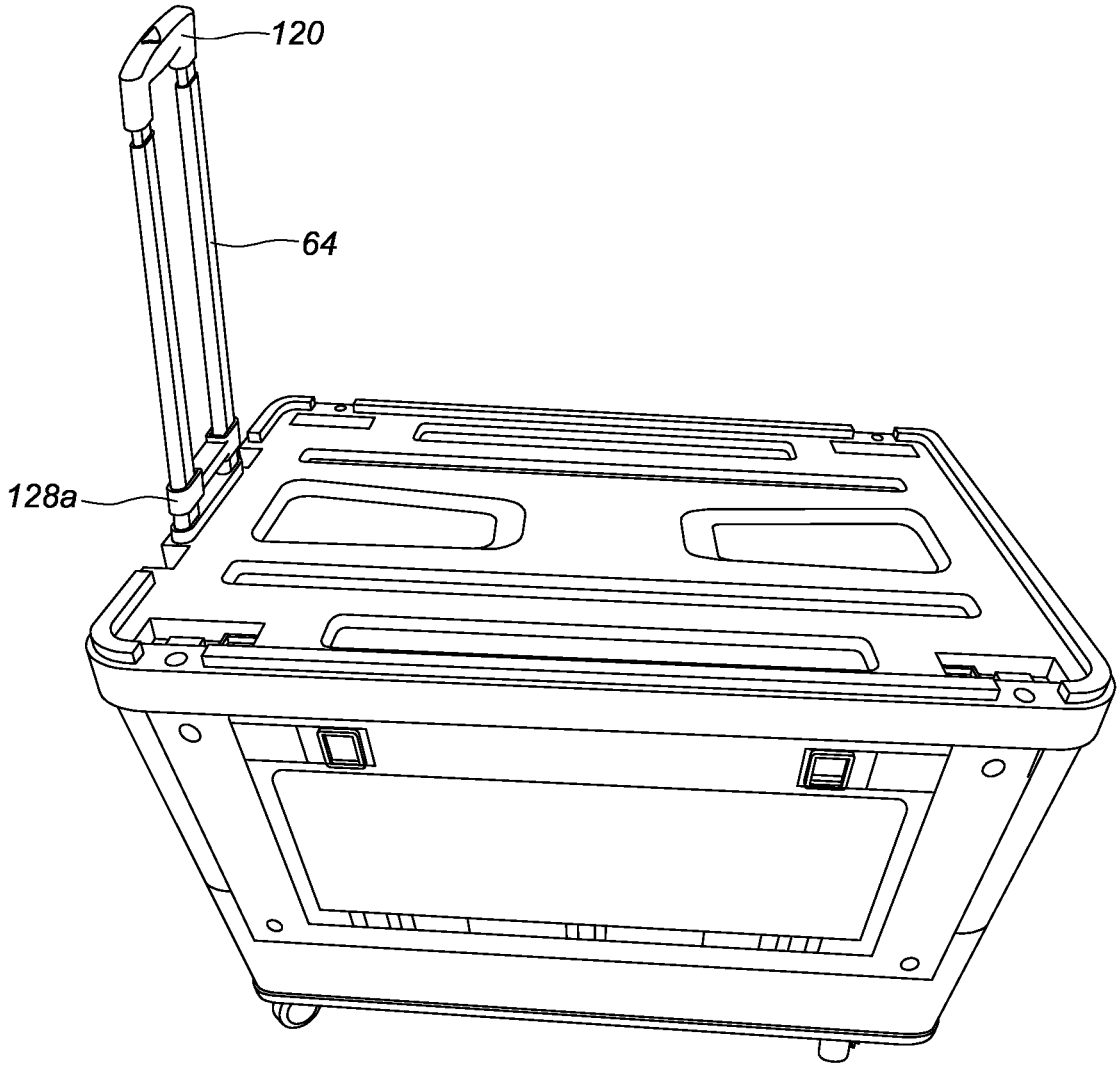


FIG. 59

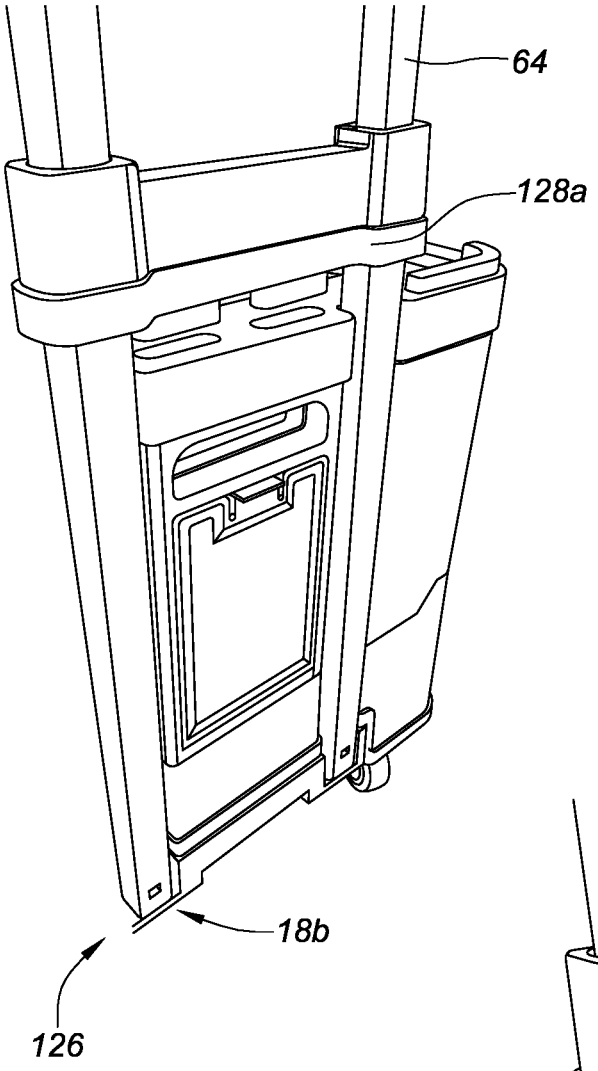


FIG. 60

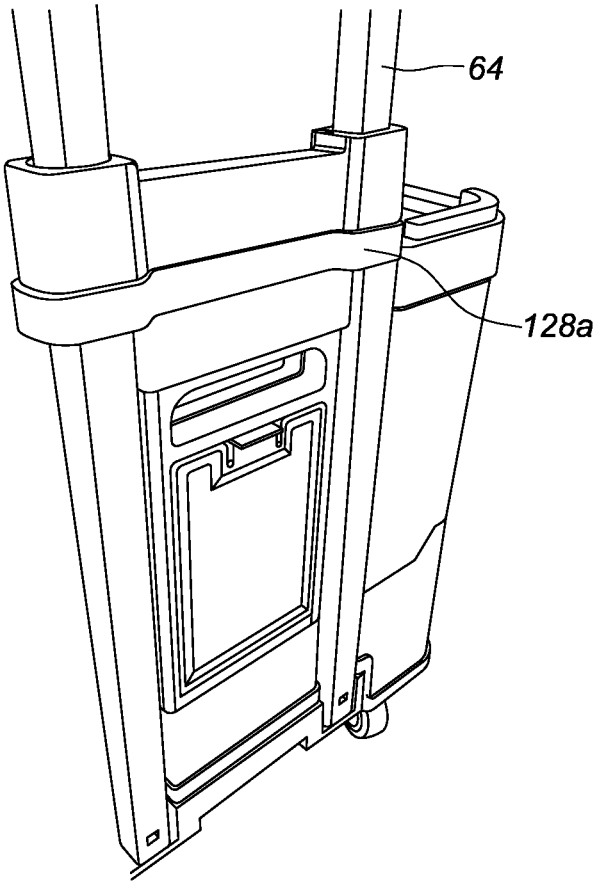


FIG. 61

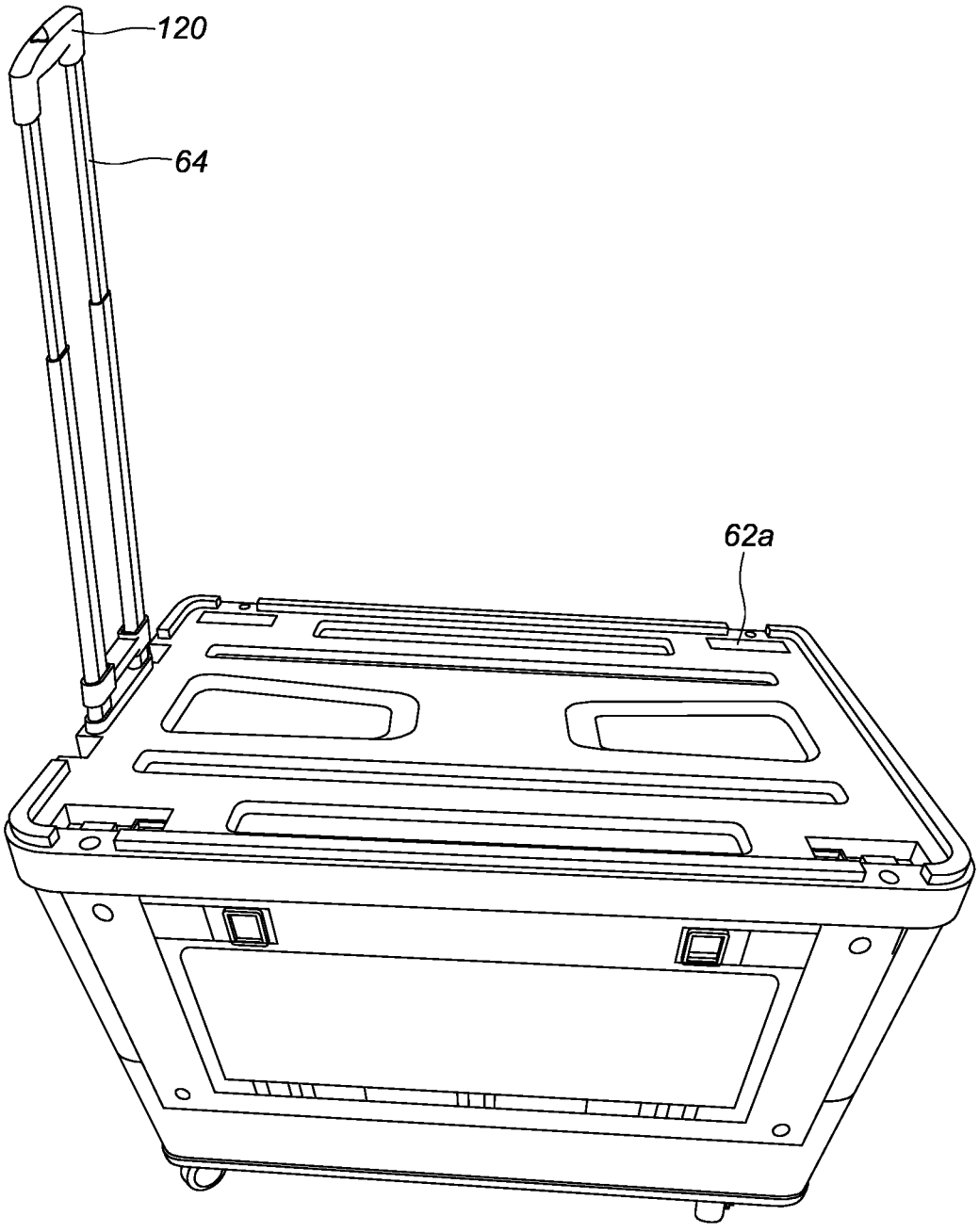


FIG. 62

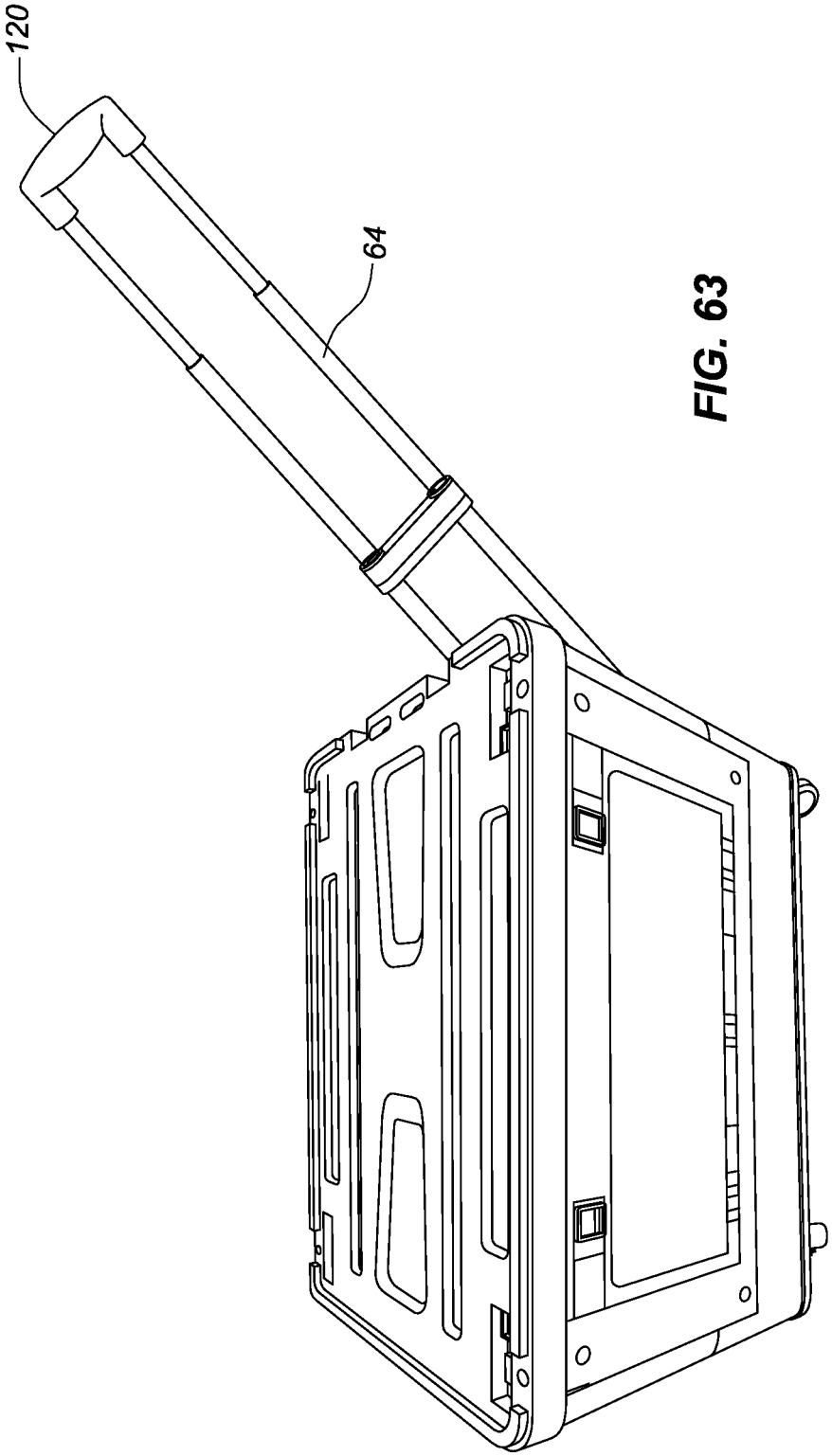


FIG. 63

STACKABLE COLLAPSIBLE CARTS

RELATED APPLICATIONS

This application is a continuation of U.S. patent application Ser. No. 18/161,677, filed on Jan. 30, 2023, which is a continuation-in-part of U.S. patent application Ser. No. 17/712,032, filed on Apr. 1, 2022, and issued as U.S. Pat. No. 11,338,835, which is a continuation of U.S. patent application Ser. No. 17/143,116, filed on Jan. 6, 2021, and issued as U.S. Pat. No. 11,338,835, which claims the benefit of the filing date of U.S. Provisional Patent Application, Ser. No. 62/974,956, filed on Jan. 6, 2020, and U.S. Provisional Patent Application, Ser. No. 62/995,375, filed on Jan. 27, 2020, the disclosure of each is incorporated herein by reference in its entirety. This application also claims the benefit of U.S. Provisional Patent Application, Ser. No. 63/576,750, filed on Mar. 6, 2023, the disclosure of which is incorporated herein by reference in its entirety. This application also claims the benefit of U.S. Provisional Patent Application, Ser. No. 63/577,068, filed on Mar. 28, 2023, the disclosure of which is incorporated herein by reference in its entirety.

FIELD OF THE INVENTION

This patent document relates to collapsible carts, and more particularly, to collapsible carts for high load capacity that are capable of folding up for convenient storage.

DESCRIPTION OF THE RELATED ART

Collapsible carts have been widely used in household and commercial settings. They provide a convenient way to transport objects when needed, but can be folded or collapsed for storage.

The following patents and published applications are representative prior art: 1. U.S. Pat. No. 2,564,939 issued to Louis S. Weast on Aug. 21, 1951 for "Foldable Shopping Cart"; 2. U.S. Pat. No. 2,786,692 issued to Anne Jackson Timpson on Mar. 26, 1957 for "Collapsible Cart"; 3. U.S. Pat. No. 3,092,395 issued to Sol Mitty et al. on Jun. 4, 1963 for "Corrugated Shopping Cart and Parts"; 4. U.S. Pat. No. 3,135,527 issued to Philip B. Knapp on Jun. 2, 1964 for "Wheeled Market Carts"; 5. U.S. Pat. No. Des. 292,135 issued to John W. Grube et al. on Sep. 29, 1987 for "Collapsible Cart"; 6. U.S. Pat. No. 4,765,644 issued to Laurence G. Bell on Aug. 23, 1988 for "Foldable Cart"; 7. U.S. Pat. No. 4,765,646 issued to Karen Cheng on Aug. 23, 1988 for "Collapsible Shopping Cart"; 8. U.S. Pat. No. 5,197,754 issued to Lyla B. Ward on Mar. 30, 1993 for "Collapsible Beach Cart"; 9. U.S. Pat. No. 5,244,219 issued to Sidney R. Hadlum on Sep. 14, 1993 for "Hand Held Carrier"; 10. U.S. Pat. No. 5,988,671 issued to Kevin G. Abelbeck et al. on Nov. 23, 1999 for "Collapsible Cart"; 11. United States Published Patent Application No. 2002/0050429 to Cory O. Nykoluk et al. on May 2, 2002 for "Pivotal Handle For Towable Baggage"; 12. United States Published Patent Application No. 2002/0139628 to Wen-Cheng Chang on Oct. 3, 2002 for "Retractable Handle Assembly"; 13. United States Published Patent Application No. 2002/0144874 to Cory O. Nykoluk et al. on Oct. 10, 2002 for "Pivotal Handle For Towable Baggage"; 14. U.S. Pat. No. 6,598,898 issued to Yong S. Chu on Jul. 29, 2003 for "Folding Cart"; 15. U.S. Pat. No. D477,916 issued to Cory O. Nykoluk on Aug. 5, 2003 for "Towing Member For A Piece of Baggage"; 16. U.S. Pat. No. 6,651,791 issued to Cory O. Nykoluk et al. on Nov. 25, 2003 for "Pivotal Handle For Towable Baggage"; 17. United States Published Patent Application No. 2004/0211635 to Chen-Tien Lu on Oct. 28, 2004 for "Apparatus for Mounting Telescopic Handle on Trunk"; 18. U.S. Pat. No. 6,918,474 issued to Cory O. Nykoluk on Jul. 19, 2005 for "Towable Wheeled-Backpack"; 19. United States Published Patent Application No. 2009/0212536 to Maria I. Tadeo on Aug. 27, 2009 for "Collapsible Rolling Tote Bag"; 20. U.S. Pat. No. 7,731,221 issued to Suzan L. Bess on Jun. 8, 2010 for "Collapsible and Portable Wheeled Dolly Particularly Suitable for Use by Students or Others in the Transport of Items"; 21. U.S. Pat. No. 7,066,476 issued to the named inventor Richard Elden on Jun. 27, 2006 for "Side Attachable Cover/Seat for a Cart Carrying Box"; 22. U.S. Pat. No. 7,147,243 issued to Darren Kady on Dec. 12, 2006 for "Accessories for a Collapsible Rolling Caddy"; and 23. U.S. Pat. No. 8,439,374 issued to the named inventor Richard Elden on May 14, 2013 for "Lightweight High Load Capacity Folding Utility Cart with Unique Support Structure and Ergonomic Handle."

Because of the collapsible nature of the prior art cart design, the sidewalls may not be sufficiently sturdy to allow for transporting heavy objects. None of the prior art has effectively addressed this problem. Thus, the need for improvements to collapsible carts still remains.

SUMMARY

Stackable collapsible carts are disclosed herein. Embodiments of the present disclosure may include a collapsible cart configured to transition from a closed condition where it may be folded up to an open condition where it may be expanded for use. The collapsible cart may include a rigid frame forming a compartment. The rigid frame having a front wall, a rear wall, a right sidewall, a left sidewall, and a bottom wall. The right sidewall and the left sidewall may be configured to fold inwardly in the closed condition.

In some embodiments, the right sidewall includes a first right panel rotatably coupled to a second right panel. In some embodiments, the second right panel proportioned to fit within an opening in the first right panel. Embodiments may also include a first lock assembly comprising a first track and a first slideable member. The first track formed along the first right panel and the second right panel, and extending from a first position on the first right panel to a second position on the second right panel. The first slideable member may be cooperatively engaged to the first track. The first slideable member may be movable along the first track between an open position to a closed position to selectively lock the first right panel to the second right panel. In some embodiments, the first slideable member may be in the open position when disposed along the first track adjacent the first position of the first track while not disposed along the second right panel and may be in the closed position when disposed along the first track adjacent the second position of the first track while being disposed across both the first right panel and second right panel.

In some embodiments, the second right panel may include a ribbed wall with a plurality of ribs. The ribbed wall may be disposed adjacent or parallel to the first track. In some embodiments, the collapsible cart may include a top cover with at least one integrated lock assembly. The at least one lock assembly removably couples the top cover to an interior surface of at least one of the front wall, the rear wall, the right sidewall, and the left sidewall.

In some embodiments, the left sidewall including a first left panel rotatably coupled to a second left panel. The

second left panel may be proportioned to fit within an opening in the first left panel. In some embodiments, the collapsible cart may include a second track formed along the first left panel and the second left panel extending from a first position on the first left panel to a second position on the second left panel. Embodiments may also include a second slideable member cooperatively engaged to the second track, the second slideable member may be movable along the second track between an open position to a closed position to selectively lock the first left panel to the second left panel.

In some embodiments, the second slideable member may be in the open position when disposed along the second track adjacent the first position of the second track while not disposed along the second left panel and may be in the closed position when disposed along the second track adjacent the second position of the second track while being disposed across both the first left panel and second left panel.

In yet another embodiment, the right sidewall further including a third right panel. In some embodiments, each of the second right panel and the third right panel encloses half of the opening in the first right panel. In some embodiments, the collapsible cart may include a telescoping handle assembly adjacent the rear wall, the telescoping handle assembly may include a hand grip at a distal end of the telescoping handle assembly and may be pivotably coupled at proximal end to the bottom of the rear wall. Embodiments may also include a sliding lock member translatable along at least a portion of the telescoping handle assembly. In some embodiments, the sliding lock member may be configured to lock to the rear wall securing the telescoping handle assembly parallel to the rear wall. In some embodiments, the sliding lock member may be configured to unlock from the rear wall allowing the telescoping handle assembly to pivot at an angle away from the rear wall. In some embodiments, the telescoping handle assembly may be rotatable to be horizontally aligned with the bottom wall and may be retained parallel to the bottom wall when in storage. In some embodiments, the bottom wall may include a sleeve. The telescoping handle assembly may be rotatable to be horizontally aligned with the bottom wall and may be retained in the sleeve when the stackable collapsible cart may be in the closed condition.

In some embodiments, the collapsible cart may include a wheel assembly coupled to the bottom wall of the cart. In some embodiments, the rigid top cover includes an indentation pattern being at least substantially aligned with the vertical axis of the wheel assembly. The indentation pattern configured to receive a wheel assembly from another identical collapsible cart when stacked vertically. In some embodiments, the top cover may also include an integrated second lock assembly. The second lock assembly may be configured to removably couple the top cover to an interior surface of at least one of the front wall, the rear wall, the right sidewall, and the left sidewall.

Each of the foregoing various aspects, together with those set forth in the claims and described in connection with the embodiments summarized above and disclosed herein may be combined to form claims for a device, apparatus, system, methods of manufacture and/or use in any way disclosed herein without limitation.

BRIEF DESCRIPTION OF THE DRAWINGS

These and other features, aspects and advantages are described below with reference to the drawings, which are intended to illustrate but not to limit the invention. In the drawings, like reference characters denote corresponding features consistently throughout similar embodiments.

FIG. **1** is a perspective view of a collapsible cart illustrated in an open condition, according to an embodiment.

FIG. **2** is a right-side view of the collapsible cart of FIG. **1**, according to an embodiment.

FIG. **3** is a left-side view of the collapsible cart of FIG. **1**, according to an embodiment.

FIG. **4** is a front plan view of the collapsible cart of FIG. **1**, according to an embodiment.

FIG. **5** is a rear plan view of the collapsible cart of FIG. **1**, according to an embodiment.

FIG. **6** is a top view of the collapsible cart of FIG. **1**, according to an embodiment.

FIG. **7** is a bottom view of the collapsible cart of FIG. **1**, according to an embodiment.

FIG. **8** is a perspective view of the collapsible cart of FIG. **1** illustrated with the sidewalls folded inwardly, according to an embodiment.

FIG. **9** is a perspective view of the collapsible cart of FIG. **1** illustrated in a closed condition, according to an embodiment.

FIG. **10** is a perspective view of a collapsible cart illustrated in an open condition, according to an embodiment.

FIG. **11** is a right-side view of the collapsible cart of FIG. **10**, according to an embodiment.

FIG. **12** is a left-side view of the collapsible cart of FIG. **10**, according to an embodiment.

FIG. **13** is a front plan view of the collapsible cart of FIG. **10**, according to an embodiment.

FIG. **14** is a rear plan view of the collapsible cart of FIG. **10**, according to an embodiment.

FIG. **15** is a top view of the collapsible cart of FIG. **10**, according to an embodiment.

FIG. **16** is a bottom view of the collapsible cart of FIG. **10**, according to an embodiment.

FIG. **17** is a perspective view of the collapsible cart of FIG. **10** illustrated with the sidewalls folded inwardly, according to an embodiment.

FIG. **18** is a perspective view of the collapsible cart of FIG. **10** illustrated in a closed condition, according to an embodiment;

FIG. **19** is a right-side view of the collapsible cart similar to FIG. **1** illustrating another embodiment having the rigid cover panel pivoting in a first axis by a hinge mechanism that connects the cover panel to the front wall.

FIG. **20** is a view similar to FIG. **19** now showing the rigid cover panel in a vertical orientation.

FIG. **21** is a front plan view of the structure of FIG. **19**.

FIG. **22** is a view similar to FIG. **21** now showing the rigid cover panel rotating in a second axis.

FIG. **23** is a view similar to FIG. **21** and FIG. **22** now showing the rigid cover panel further rotating in a second axis.

FIG. **24** is a perspective view showing the magnets and washers disposed inside the collapsible cart.

FIG. **25** is a perspective view showing the hinge mechanism of FIGS. **20-24**.

FIG. **26** is an enlarged view taken along line **26** of FIG. **25**.

FIG. **27** is a perspective view of another embodiment of the collapsible cart now having a pivoting telescoping handle.

FIG. **28** is a view similar to FIG. **27** now showing a locking slide being moved upwards to unlock the telescoping handle relative to the rear wall of the cart.

FIG. **29** is a perspective view of the structure of FIGS. **27-28** now showing how the telescoping handle can pivot at its proximal end for rolling the cart while allowing all four wheels to remain in contact with the ground.

FIG. **30** is a perspective view of a collapsible cart illustrated in a closed condition, according to an embodiment.

FIG. **31** is another perspective view of the collapsible cart of FIG. **30**, according to an embodiment.

FIG. **32** is a perspective view of the collapsible cart of FIG. **30** having a cover panel stored and engaged to the underside of the collapsible cart, according to an embodiment.

FIG. **33** is a view similar to FIG. **32** showing the cover panel removed from the underside of the collapsible cart of FIG. **30**, according to an embodiment.

FIGS. **34-41** are perspective views of the collapsible cart of FIG. **30** illustrating the transition from a closed condition to an open condition, according to an embodiment.

FIG. **42**A is a perspective view of the collapsible cart of FIG. **30** illustrating a second right panel rotatably coupled to a first right panel, according to an embodiment.

FIG. **42**B is a cross-sectional view of a first slideable member for coupling the first right panel to the second right panel and a second slideable member for coupling the third right panel to the second right panel, according to an embodiment.

FIG. **43** is a perspective view of the collapsible cart of FIG. **30** illustrating a second right panel and a third right panel each rotatably coupled to a first right panel, according to an embodiment.

FIG. **44** is a perspective view of a collapsible cart with a lock mechanism illustrated in an open condition, according to an embodiment.

FIG. **45** is a perspective view of another collapsible cart illustrated in a closed condition and having a cover panel stored on the top of the collapsible cart, according to an embodiment.

FIG. **46** is a perspective view of the underside of the collapsible cart of FIG. **45**, according to an embodiment.

FIG. **47** is a close-up view of a wheel assembly engaged to a receiving aperture in the underside of the collapsible cart of FIG. **45**, according to an embodiment.

FIG. **48** is a perspective view of the underside of the collapsible cart of FIG. **45** with wheel assemblies, according to an embodiment.

FIG. **49** is a perspective view of the collapsible cart of FIG. **45** without the cover panel, according to an embodiment.

FIGS. **50-51** are perspective views of the collapsible cart of FIG. **45** illustrating the transition from a closed condition to an open condition, according to an embodiment.

FIGS. **52-53** illustrate a lock assembly translatable to lock a first panel to a second panel of the collapsible cart of FIG. **45**, according to an embodiment.

FIG. **54** is a perspective view of the collapsible cart of FIG. **45** in an open condition with the cover panel placed on top, according to an embodiment.

FIG. **55** illustrate a lock assembly translatable to lock the cover panel to one of the sidewalls of the collapsible cart of FIG. **45**, according to an embodiment.

FIG. **56** is a perspective view of the collapsible cart of FIG. **45** illustrating a second panel rotatably coupled to a first panel, according to an embodiment.

FIG. **57** is a perspective view of the collapsible cart of FIG. **45** in an open condition with alternate second panel having ribbed configuration for increased strength, according to an embodiment.

FIG. **58** is a view similar to FIG. **57** showing how the telescoping handle extended from underneath the collapsible cart and pivoted at its proximal end, according to an embodiment.

FIGS. **59-61** illustrate the locking of the telescoping handle to the cover panel so as to retain the telescoping handle in a vertical fixed position, according to an embodiment.

FIG. **62** illustrate the collapsible cart of FIG. **45** showing a locking slide being moved upwards to unlock the telescoping handle relative to the cover panel of the cart.

FIG. **63** is a view similar to FIG. **62** now showing how the telescoping handle can pivot at its proximal end for rolling the cart while allowing all four wheels to remain in contact with the ground.

DETAILED DESCRIPTION

Unique and inventive collapsible carts are disclosed herein. Although embodiments of collapsible carts are disclosed herein, it is to be expressly understood that the present invention is not restricted solely to such embodiments. Rather, the present disclosure is directed to each of the inventive features described below, both individually as well as collectively, in various embodiments. Further, as will become apparent to those skilled in the art, one or more aspects of the present disclosure may be incorporated in other devices.

FIGS. **1-9** illustrate an embodiment of a collapsible cart **10** with swivel wheels, according to an embodiment. The collapsible cart **10** may include a rigid frame **12** forming a compartment **14**. The rigid frame **12** may a front wall **16**, a rear wall **18**, a right sidewall **20**, a left sidewall **22**, and a bottom wall **24**. The right sidewall **20** may include a first right panel **26** and a second right panel **28**. The first right panel **26** may be coupled with a first hinge **27** to the second right panel **28** along a first vertical axis **30**. The left sidewall **22** may include a first left panel **32** and a second left panel **34**. The first left panel **32** may be coupled with a second hinge **33** to the second left panel **34** along a second vertical axis **36**.

As can be appreciated, the first right panel **26**, the second right panel **28**, the first left panel **32** and the second left panel **34** may be formed of molded rigid plastic. In one embodiment, the first right panel **26**, the second right panel **28**, the first left panel **32** and the second left panel **34** may each be a solid panel member. In another embodiment, the first right panel **26**, the second right panel **28**, the first left panel **32** and the second left panel **34** may each be configured in a frame structure with a plurality of apertures **38** positioned between vertical and horizontal rigid members **39**. Artisans would appreciate that this configuration allows for light-weight construction of the sidewalls **20** and **22**.

In one embodiment, the collapsible cart **10** may include a rotatable base panel **40** (shown in FIGS. **6** and **8**) rotatably coupled to the bottom wall **24** within the compartment **14**. The rotatable base panel **40** may include a lower surface **42** (shown FIG. **8**) and an upper surface **44** (shown FIG. **6**). As can be appreciated, when in use, the rotatable base panel **40** may be rotated so that its lower surface rests against an interior surface of the bottom wall **24**.

In another embodiment, the collapsible cart **10** may include a first track **46** and a second track **48**. The first track **46** may extend across the first vertical axis **30** from a first position **50** on the first right panel **26** to a second position **52** on the second right panel **28**. The second track **48** may

extend across the second vertical axis **36** from a first position **54** on the first left panel **32** to a second position **56** on the second left panel **34**.

The collapsible cart **10** may also include a first slideable member **58** and a second slideable member **60**. The first slideable member **58** may cooperatively engage the first track **46** and may be movable between an open position to a closed position to selectively secure or lock the first right panel **26** to the second right panel **28** (shown in FIG. **2**). As can be appreciated, the first slideable member **58** is in the open position when adjacent the first position **50** of the first track **46** and is in the closed position when adjacent the second position **52** of the first track **46**. Similarly, the second slideable member **60** may be cooperatively engage the second track **48** and may be movable between an open position to a closed position to selectively secure or lock the first left panel **32** to the second left panel **34**. As can be appreciated, the second slideable member **60** is in the open position when adjacent the first position **54** of the second track **48** and is in the closed position when adjacent the second position **56** of the second track **48**. In another embodiment, the collapsible cart **10** may include one only one slideable member on either one of the sidewalls **20** or **22**. Alternatively, the collapsible cart **10** may include a plurality of slideable members for each sidewall **20** and **22**.

In one embodiment, the collapsible cart **10** may include a rigid cover panel **62** and a retractable handle **64**. The rigid cover panel **62** may be formed of a molded plastic with a ribbed pattern for increased rigidity. The rigid cover panel **62** may be configured to conform in shape and fit snugly to a top opening **63** of the compartment **14**. The rigid cover panel **62** may securely fit in a first position over the top opening **63** to serve as a cover or seat on top of the collapsible cart **10**. The rigid cover panel **62** may include one or more protrusions on a bottom surface to removably secure to the front wall **16** of the collapsible cart **10**. Meanwhile, the retractable handle **64** may be positioned adjacent the back wall **12**.

As shown in FIGS. **1-9**, the collapsible cart **10** may include a plurality of rotatable swivel wheels **66** coupled to the bottom wall **24** of the collapsible cart **10**. The rotatable swivel wheels **66** may include at least one-wheel locking assembly **68** having a first condition for locking at least one of the rotatable swivel wheels to prevent rolling movement, and a second condition for unlocking the at least one of the rotatable swivel wheels. As can be appreciated, the at least one-wheel locking assembly may include a brake actuator pedal **70**.

FIGS. **10-18** illustrate an embodiment of a collapsible cart **100** with a pair of three-wheel assemblies **102**, according to an embodiment. The collapsible cart **100** may include a spindle **104** rotatably coupled to the bottom wall **24** and adjacent an intersection of the bottom wall **24** and the rear wall **18**. Each three-wheel assembly **102** may include three wheels **106**, three spokes **108** and a central rotational point **110**. As can be appreciated, each wheel **106** may be rotatably coupled to one of the three spokes **108**, and each spoke **108** may be connected to the central rotational point **110** coupled to the spindle **104**.

As can be appreciated, the collapsible cart **10** may be fabricated with a light-weight material, such as plastic. In one embodiment, one or more of the walls **16**, **18**, **20**, **22** and **24** may be formed of a molded plastic with a ribbed pattern for increased rigidity.

In operation, the collapsible cart **10** and **100** is transitioned from a closed condition where it is folded up to an open position where it is expanded for use. In the closed condition (shown in FIGS. **9** and **18**), a user may unlock clips **72** on the right side and left side to extend the right and left opposing sidewalls **20** and **22**. In one embodiment, the user may need to insert his or hands in the compartment **14** to push out the sidewalls **20** and **22**. As the sidewalls **20** and **22** are pushed outwards, the rotatable base panel **40** drops down such that its lower surface rests against the interior surface of the bottom wall **24**, and stabilizes the cart by fitting tightly between the lower region of the two opposing sidewalls **20** and **22**. The first slideable member **58** and the second slideable member **60** may then be moved along their respective tracks **46** and **48** and from their respective open position to their respective closed position to selectively secure the sidewall panels. As can be appreciated, the slideable members **58** and **60** may be used to hold the extended sidewalls **20** and **22** in place. The rigid cover panel **62**, which may be secured to the front wall **16** for storage, may be unlatched and securely fit over the top opening **63** of the compartment **14** to serve as a cover or seat. The collapsible cart **10** or **100** may be used to transport heavy loads in this open condition or may be collapsed in reverse fashion to place in a closed condition for storage.

FIGS. **19-29** illustrate another embodiment of the present invention. The collapsible cart **10** is very similar to the previous embodiments already disclosed, such that common reference numbers are used herein. Similarly, the rigid frame **12** forms the compartment **14**. The rigid frame **12** includes the front wall **16**, the rear wall **18**, the right sidewall **20**, the left sidewall **22**, and the base panel **40**. The retractable handle mechanism **64** is disposed at, within or adjacent the back wall **18** as best shown in FIG. **27**. The retractable handle mechanism **64** comprises a hand grip **120** attached to a telescoping assembly **122**. The hand grip is attached at a distal end **124** of the telescoping assembly. The telescoping assembly **122** is pivotably attached at a proximal end **126** to the bottom **18***b* of the rear wall **18** as best seen in FIG. **28**. As can be appreciated, there are a multitude of mechanisms and methods that may be used by those skilled in the art to create the pivot joint at the proximal end of the telescoping assembly, as this teaching is not to be limited to any one specific structure.

A locking slide **128** is translatable along at least a portion of the telescoping assembly **122**. The locking slide **128** is a rigid structure that captures both of the telescoping tubes and helps secure them in parallel relationship. It is understood by those skilled in the art that just one telescoping tube could be used and as such the locking slide **128** would translate along this one telescoping tube.

In FIG. **27** the locking slide **128** is locking the telescoping assembly **122** to the rear wall **18** at a distance apart from the proximal end which is pivotable. Then, in FIG. **28**, the locking slide **128** has moved upwards and no longer locks the telescoping assembly **122** to the rear wall **18**.

The locking slide **128** may be configured to lock to the rear wall **18** securing the telescoping assembly **122** parallel to the rear wall **18**. The locking slide **128** may also be configured to unlock from the rear wall **18** allowing the telescoping assembly **122** to pivot at an angle away from the rear wall **18**, as shown in FIG. **28**. A release button **130** may be used to lock and unlock the locking slide **128** from the rear wall **18**. As shown in FIG. **28**, the collapsible cart **10** can now be rolled with all four wheels remaining on the ground while still retaining the functionality of the cart as described in the previous embodiments.

It is also understood by those skilled in the art that the locking slide **128** could be replaced with a locking mechanism that either secures the telescoping assembly **122** to the

rear wall **18** or allows the telescoping assembly **122** to pivot about the proximal end. In other words, in other embodiments, the locking slide **128** need not translate along the telescoping assembly **122** while still being able to lock and unlock the telescoping assembly **122** in relation to the rear wall **18**.

FIGS. **30-44** illustrate another embodiment of the present invention. The collapsible cart **10** is very similar to the previous embodiments already disclosed, such that common reference numbers are used herein. Like the prior disclosed embodiments, the rigid frame **12** forms the compartment **14**. The rigid frame **12** includes the front wall **16**, the rear wall **18**, the right sidewall **20**, the left sidewall **22**, and the bottom wall **24**. In some embodiments, the right sidewall **20** and the left sidewall **22** may be configured to fold inwardly in the closed condition. The right sidewall **20** may include a first right panel **26** rotatably coupled to a second right panel **28**.

The collapsible cart **10** may include a first track **46** formed along the first right panel **26** and the second right panel **28** extending from a first position on the first right panel **26** to a second position on the second right panel **28**. The collapsible cart **10** may also include a first lock assembly **42**A comprising a first slideable member **58** traversing the first track **46** and capable of cooperatively engaging with a peg **42**B. In one embodiment, the first slideable member **58** is spring loaded to move the first slideable member **68** from an open condition to a closed condition to lock around the peg **42**B. The first slideable member **58** may be movable along the first track **46** between an open position to a closed position to selectively lock the first right panel **26** to the second right panel **28**. As can be appreciated, other lock assemblies may be employed to selectively lock and/or unlock the first right panel **26** to the second right panel **28**.

In one embodiment, the second right panel **28** may be proportioned to fit within an opening in the first right panel **26**. In some embodiments, the second right panel **28** may be configured to conform in shape to cover at least a portion of an opening in the first right panel **26**. The first slideable member **58** may be in the open position when disposed along the first track **46** adjacent the first position of the first track **46** while not disposed along the second right panel **28** and may be in the closed position when disposed along the first track **46** adjacent the second position of the first track **46** while being disposed across both the first right panel **26** and second right panel **28**.

As shown in FIG. **44**, in some embodiments, the second right panel **28** may also include a ribbed wall **29** with a plurality of ribs **29***a*. The ribbed wall **29** may be disposed adjacent the first track **46** (not shown). In some embodiments, the plurality of ribs **29***a* may be aligned parallel to the first track **46** to distribute compressive stresses away from the first track **46**. In other embodiments, the plurality of ribs **29***a* may be aligned vertically to withstand compressive forces applied to the right sidewall **20** from the weight of other objects resting on the top cover **62**, such as other stackable collapsible carts **10**.

In some embodiments, the collapsible cart **10** may also include a top cover **62** with at least one integrated lock assembly **65**. The top cover **62** may be configured to conform in shape to a top opening of the compartment. In one embodiment, the top cover **62** securely fits in a first position over the top opening to serve as a cover or seat on top of the collapsible cart **10**. The at least one lock assembly **65** may be configured to removably couple the top cover **62** to an interior surface of at least one of the front wall **16**, the rear wall **18**, the right sidewall **20**, and the left sidewall **22**.

As shown in FIGS. **35-43**, in some embodiments, the right sidewall **20** may include a third right panel **31**. In such embodiment, the second right panel **28** and the third right panel **31** may be configured to enclose half of the opening in the first right panel **26**. In yet another embodiment, the second right panel **28** and the third right panel **31** may conform in shape to collectively cover the opening in the first right panel **26**.

In some embodiments, as shown in FIG. **46**, the telescoping handle assembly **64** may be rotatable to be horizontally aligned with the bottom wall **24** and may be retained parallel to the bottom wall **24** when in storage. As with prior embodiments, the collapsible cart **10** shown in FIG. **48** may include a wheel assembly **66** coupled to the bottom wall **24** of the cart **10**.

In some embodiments, as shown in FIG. **51**, the left sidewall **22** may also include a first left panel **32** rotatably coupled to a second left panel **34**. In yet another embodiment, the second left panel **34** may be proportioned to fit within an opening in the first left panel **32**. In some embodiments, the collapsible cart **10** may also include a second track **48** formed along the first left panel **32** and the second left panel **34** extending from a first position on the first left panel **32** to a second position on the second left panel **34**. The collapsible cart **10** may also include a second slideable member **60** cooperatively engaged to the second track **48**, the second slideable member **60** may be movable along the second track **48** between an open position to a closed position to selectively lock the first left panel **32** to the second left panel **34**.

In some embodiments, the second slideable member **60** may be in the open position when disposed along the second track **48** adjacent the first position of the second track **48** while not disposed along the second left panel **34** and may be in the closed position when disposed along the second track **48** adjacent the second position of the second track **48** while being disposed across both the first left panel **32** and second left panel **34**.

As shown in FIGS. **58-63**, in some embodiments, the collapsible cart **10** may include a telescoping handle assembly **64** adjacent the rear wall **18**. The telescoping handle assembly **64** may include a hand grip **120** at a distal end **124** of the telescoping handle assembly **64** and may be pivotably coupled at proximal end **126** to the bottom **18***b* of the rear wall **18**. In one embodiment, the collapsible cart **10** includes a sliding lock member **128***a* translatable along at least a portion of the telescoping handle assembly **64**. The sliding lock member **128***a* may be configured to lock to the rear wall **18** securing the telescoping handle assembly **64** parallel to the rear wall **18**. The sliding lock member **128***a* may be configured to unlock from the rear wall **18** and/or cover panel **62** allowing the telescoping handle assembly **64** to pivot at an angle away from the rear wall **18**. In some embodiments, the bottom wall **24** may include a sleeve **25**. The telescoping handle assembly **64** may be rotatable to be horizontally aligned with the bottom wall **24** and may be retained in the sleeve **25** when the collapsible cart **10** is in the closed condition.

As shown in FIG. **62**, in some embodiments, the top cover **62** may also include an indentation pattern **62***a* being at least substantially aligned with a vertical axis of the wheel assembly **66**. The indentation pattern **62***a* may be configured to receive a wheel assembly **66** from another identical collapsible cart **10** when stacked vertically.

Although the various inventive aspects are herein disclosed in the context of certain preferred embodiments, implementations, and examples, it will be understood by

those skilled in the art that the present invention extends beyond the specifically disclosed embodiments to other alternative embodiments and/or uses of the invention and obvious modifications and equivalents thereof. In addition, while a number of variations of the inventive aspects have been shown and described in detail, other modifications, which are within their scope will be readily apparent to those of skill in the art based upon this disclosure. It should be also understood that the scope this disclosure includes the various combinations or sub-combinations of the specific features and aspects of the embodiments disclosed herein, such that the various features, modes of implementation, and aspects of the disclosed subject matter may be combined with or substituted for one another. Thus, it is intended that the scope of the present invention herein disclosed should not be limited by the particular disclosed embodiments or implementations described above, but should be determined only by a fair reading of the claims.

Similarly, this disclosure is not be interpreted as reflecting an intention that any claim require more features than are expressly recited in that claim. Rather, as the following claims reflect, inventive aspects lie in a combination of fewer than all features of any single foregoing disclosed embodiment. Thus, the claims following the Detailed Description are hereby expressly incorporated into this Detailed Description, with each claim standing on its own as a separate embodiment.

Further, all claim terms should be interpreted in their most expansive forms so as to afford the applicant the broadest coverage legally permissible. Although the embodiments have been described with reference to the drawings and specific examples, it will readily be appreciated by those skilled in the art that many modifications and adaptations of the processes, methods and apparatuses described herein are possible without departure from the spirit and scope of the embodiments as claimed herein. Thus, it is to be clearly understood that this description is made only by way of example and not as a limitation on the scope of the embodiments as claimed below.

What is claimed is:

1. A collapsible cart configured to transition from a closed condition where it is folded up to an open condition where it is expanded for use, the collapsible cart comprising:

a rigid frame forming a compartment, the rigid frame having a front wall, a rear wall, a right sidewall, a left sidewall, and a bottom wall, the right sidewall and the left sidewall are configured to fold inwardly in the closed condition; the right sidewall comprising a first right panel rotatably coupled to a second right panel; the second right panel proportioned to fit within an opening in the first right panel;

a first track formed along the first right panel and the second right panel extending from a first position on the first right panel to a second position on the second right panel; and

a first slideable member cooperatively engaged to the first track, the first slideable member is movable along the first track between an open position to a closed position to selectively lock the first right panel to the second right panel, wherein the first slideable member is in the open position when disposed along the first track adjacent the first position of the first track while not disposed along the second right panel and is in the closed position when disposed along the first track adjacent the second position of the first track while being disposed across both the first right panel and second right panel.

2. The collapsible cart of claim **1**, wherein the second right panel comprises a ribbed wall with a plurality of ribs, the ribbed wall disposed adjacent the first track.

3. The collapsible cart of claim **2**, wherein the plurality of ribs are aligned parallel to the first track.

4. The collapsible cart of claim **1**, further comprising a top cover with at least one integrated lock assembly, the at least one lock assembly removably couples the top cover to an interior surface of at least one of the front wall, the rear wall, the right sidewall, and the left sidewall.

5. The collapsible cart of claim **1**, wherein the left sidewall comprising a first left panel rotatably coupled to a second left panel, the second left panel proportioned to fit within an opening in the first left panel.

6. The collapsible cart of claim **5**, further comprising:

a second track formed along the first left panel and the second left panel extending from a first position on the first left panel to a second position on the second left panel; and

a second slideable member cooperatively engaged to the second track, the second slideable member is movable along the second track between an open position to a closed position to selectively lock the first left panel to the second left panel, wherein the second slideable member is in the open position when disposed along the second track adjacent the first position of the second track while not disposed along the second left panel and is in the closed position when disposed along the second track adjacent the second position of the second track while being disposed across both the first left panel and second left panel.

7. The collapsible cart of claim **1**, wherein the right sidewall further comprising a third right panel, and wherein each of the second right panel and the third right panel encloses half of the opening in the first right panel.

8. The collapsible cart of claim **1**, further comprising:

a telescoping handle assembly adjacent the rear wall, the telescoping handle assembly comprises:

a hand grip at a distal end of the telescoping handle assembly and is pivotably coupled at proximal end to the bottom of the rear wall, and

a sliding lock member translatable along at least a portion of the telescoping handle assembly, wherein the sliding lock member is configured to lock to the rear wall securing the telescoping handle assembly parallel to the rear wall, and

wherein the sliding lock member is configured to unlock from the rear wall allowing the telescoping handle assembly to pivot at an angle away from the rear wall.

9. The collapsible cart of claim **1**, wherein the telescoping handle assembly is rotatable to be horizontally aligned with the bottom wall and is retained parallel to the bottom wall when in storage.

10. The collapsible cart of claim **1**, further comprising a wheel assembly coupled to the bottom wall of the cart.

11. A cart comprising:

a rigid frame forming a compartment in an open condition, the rigid frame having a front wall, a rear wall, a right sidewall, a left sidewall, and a bottom wall, the right sidewall and the left sidewall are configured to fold inwardly in the closed condition, the right sidewall comprising a first right panel rotatably coupled to a second right panel, the right sidewall further comprising a third right panel, wherein the second right panel and the third right panel conform in shape to collec-

tively cover the opening in the first right panel and, the second right panel comprises a ribbed wall with a plurality of ribs; and

a first lock assembly integrated with the first right panel and the second right panel, the first lock assembly having a first condition for locking the first right panel to the second right panel, and a second condition for unlocking the first right panel from the second right panel.

12. The collapsible cart of claim **11**, wherein the second right panel conforming in shape to cover at least a portion of an opening in the first right panel.

13. The collapsible cart of claim **11**, further comprising a plurality of rotatable swivel wheels coupled to the bottom wall of the collapsible cart having at least one wheel-locking assembly, the at least one-wheel locking assembly having a first condition for locking at least one of the rotatable swivel wheels to prevent rolling movement, and a second condition for unlocking the at least one of the rotatable swivel wheels.

14. The collapsible cart of claim **11**, further comprising a top cover panel conforming in shape to a top opening of the compartment, the top cover panel securely fits in a first position over the top opening to serve as a cover or seat on top of the collapsible cart, the top cover panel having an integrated second lock assembly, the second lock assembly removably couples the top cover to an interior surface of at least one of the front wall, the rear wall, the right sidewall, and the left sidewall.

15. A stackable collapsible cart configured to transition from a closed condition where it is folded up to an open condition where it is expanded for use, the stackable collapsible cart comprising:

a rigid frame forming a compartment in the open condition, the rigid frame having a front wall, a rear wall, a right sidewall, a left sidewall, and a bottom wall, the right sidewall and the left sidewall are configured to fold inwardly in the closed condition, the right sidewall comprising a first right panel rotatably coupled to a second right panel;

a first lock assembly integrated with the first right panel and the second right panel, the first lock assembly having a first condition for locking the first right panel to the second right panel, and a second condition for unlocking the first right panel from the second right panel;

a wheel assembly coupled to the bottom wall of the cart, the first wheel assembly having a first vertical axis; and

a rigid top cover conforming in shape to a top opening of the compartment, the rigid top cover securely fits in a first position over the top opening to serve as a cover on top of the collapsible cart, the rigid top cover securely fits in a second position when the right sidewall and left sidewall fold inwardly in a closed condition, wherein the rigid top cover has an indentation pattern being at least substantially aligned with the vertical axis of the wheel assembly, the indentation pattern configured to receive a wheel assembly from another identical collapsible cart when stacked vertically.

16. The stackable collapsible cart of claim **15**, further comprising:

a telescoping handle assembly adjacent the rear wall, the telescoping handle assembly comprises:

a hand grip at a distal end of the telescoping handle assembly and is pivotably coupled at proximal end to the bottom of the rear wall, and

a sliding lock member translatable along at least a portion of the telescoping handle assembly, wherein the sliding lock member is configured to lock to the rear wall securing the telescoping handle assembly parallel to the rear wall, and wherein the sliding lock member is configured to unlock from the rear wall allowing the telescoping handle assembly to pivot at an angle away from the rear wall.

17. The stackable collapsible cart of claim **16**, wherein the bottom wall comprises a sleeve, and wherein the telescoping handle assembly is rotatable to be horizontally aligned with the bottom wall and is retained in the sleeve when the stackable collapsible cart is in the closed condition.

18. The stackable collapsible cart of claim **15**, wherein the top cover panel comprises an integrated second lock assembly, the second lock assembly removably couples the top cover to an interior surface of at least one of the front wall, the rear wall, the right sidewall, and the left sidewall.

* * * * *